

Channel Study

REFERENCE		CH# 207B1-		89.3 MHz, Pwr= 0.45 kW, HAAT=586.8M,		COR= 945 M		DISPLAY DATES			
38 07 10.0 N.				Average Protected F(50-50)= 36.9 km				DATA 03-08-07			
120 43 27.0 W.								SEARCH 03-15-07			
CH	CALL	TYPE		AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
06Z2E	KVIE	LI	HN	284.2	70.55	38 16 18.0	100.000		124.4	138.7R	-68.1M
Sacramento			CA	103.7	BLET20030328ANE	121 30 22.0	550	0	Kvie, Inc.		
208B	KARQ	LIC	DVX	98.4	42.43	38 03 46.0	0.195	53.7	35.2	-28.99	-19.37
East Sonora			CA	278.7	BLED20050429AEP	120 14 45.0	778	0	Educational Media Foundati		
207A	KOHL	LIC	DEN	238.4	122.32	37 32 14.0	0.145	40.5	11.8	40.83	2.98
Fremont			CA	57.6	BLED19930503KA	121 54 14.0	111	0	Fremont-newark Community C		
208A	KBES	APP	CX	199.1	62.30	37 35 21.0	0.150	14.2	10.2	16.92	3.35
Ceres			CA	19.0	BPED20070116ACP	120 57 23.0	79	0	Bet-nahrain, Inc.		
207B	KVPR	LIC	CN	135.2	162.83	37 04 25.0	2.450	141.7	62.3	6.26	49.17
Fresno			CA	316.0	BLED19821108AH	119 25 52.0	896	0	White Ash Broadcasting, In		
208A	KBES	APP	CX	199.1	62.30	37 35 21.0	0.150	10.0	7.0	21.11	6.57
Ceres			CA	19.0	BPED20070116ACP	120 57 23.0	38	0	Bet-nahrain, Inc.		
208A	KBES	LIC	HN	199.1	62.30	37 35 21.0	0.150	10.0	7.0	21.11	6.57
Ceres			CA	19.0	BLED19920921KB	120 57 23.0	38	0	Bet Nahrain, Inc.		
207A	KQEI-F	LIC	DVN	315.1	93.18	38 42 38.0	0.700	56.5	17.2	18.01	13.26
North Highlands			CA	134.6	BLED19911223KA	121 28 54.0	103	0	Northern California Public		
206B1	KCJH	LIC	DVX	179.9	89.19	37 18 57.0	13.500	51.4	32.9	13.51	19.06
Livingston			CA	359.9	BLED20050506AAZ	120 43 20.0	92	0	Your Christian Companion N		
205B	KXPR	LIC	DCN	284.4	70.34	38 16 25.0	50.000	5.9	51.6	40.85	18.24
Sacramento			CA	103.9	BLED19950926KB	121 30 11.0	146	0	California State Universit		
209B1	KLRS	CP	VX	301.0	57.37	38 23 01.0	6.800	2.9	30.4	34.60	26.64
Lodi			CA	120.7	BPED19971113MD	121 17 15.0	109	143	Educational Media Foundati		
207A	KMTG	LIC	DCX	224.8	143.00	37 12 06.0	0.184	32.1	9.7	70.75	27.06
San Jose			CA	44.1	BLED20040803ABX	121 51 42.0	63	185	San Jose Unified School Di		
208B1	KVMR	LIC	C	350.7	126.82	39 14 47.0	1.750	67.4	44.2	31.35	38.85
Nevada City			CA	170.5	BLED20001020AAK	120 57 48.0	480	1205	Nevada City Community Broa		
261A	KQOD	LIC	CN	251.9	45.23	37 59 33.0	2.715	34.7	27.0	12.0R	33.2M
Stockton			CA	71.6	BLH19990119KD	121 12 50.0	21	113	Capstar Tx Limited Partner		
204B	KMPO	LIC	CN	136.5	89.58	37 32 00.0	2.050	3.0	55.2	71.57	34.01
Modesto			CA	316.9	BLED19840213AO	120 01 29.0	704	1311	Radio Bilingue, Inc.		
207A	KPFB	LIC	DHN	259.0	138.67	37 52 20.0	0.063	16.2	5.0	86.41	34.46
Berkeley			CA	78.1	BLED19910909KB	122 16 18.0	-154	0	Pacifica Foundation, Inc.		
210B	KEFR	LIC	CN	136.7	89.20	37 32 01.0	1.800	2.8	53.7	71.35	35.12
Le Grand			CA	317.1	BLED19910610KB	120 01 50.0	697	1330	Family Stations, Inc.		
207A	KLSI	LIC	DE	248.6	166.43	37 33 44.0	0.002	27.5	6.8	97.37	51.34
Moss Beach			CA	67.6	BLED20060216ABB	122 28 46.0	487	581	Educational Public Radio,		
207A	AP3148	APP	DCN	227.3	171.52	37 03 53.0	0.004	23.3	6.8	108.05	58.50
Scotts Valley			CA	46.4	BNPED20000214AAA	122 08 37.0	229	556	Csn International		
208A	KSMC	LIC	DHN	256.1	125.64	37 50 25.0	0.032	6.0	4.2	81.48	63.69
Moraga			CA	75.2	BLED19840702CA	122 06 36.0	-54	205	Associated Students Of St.		
207A	KPDO	LIC	CX	237.6	176.82	37 15 23.0	0.100	18.6	5.6	117.32	63.78
Pescadero			CA	56.6	BLED20060301AAA	122 24 33.0	-154	30	Pescadero Public Radio Ser		

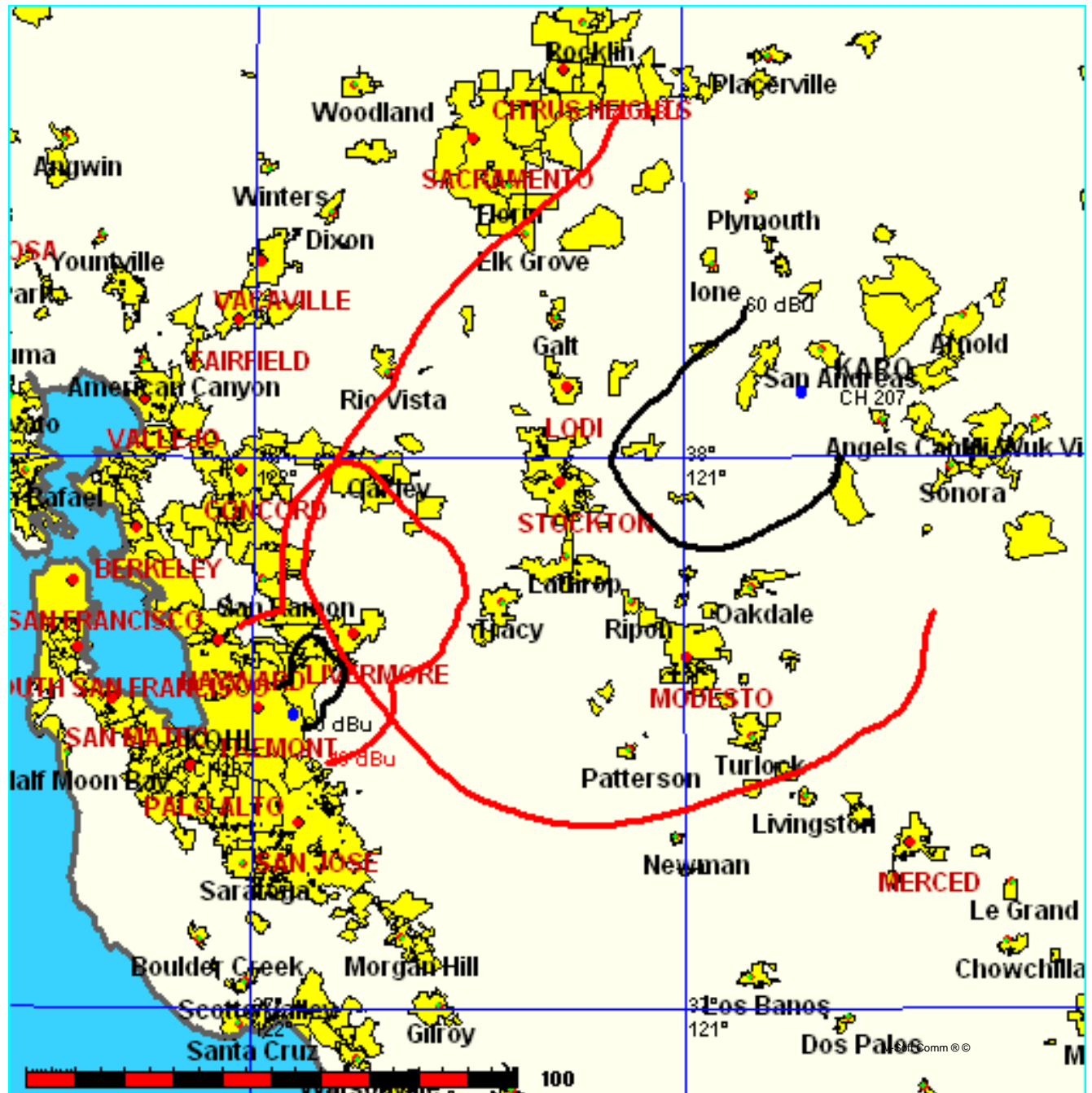
Terrain database is NGDC 30 SEC
 ERP and HAAT on direct-line with reference station.
 • affixed to TV6 Margin= no direct-line contour overlap.

FMCommander Single Allocation Study
03-28-2007

KARQ CH 207 B1
0.45 kW 945 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

KOHL CH 207 A BLED19930503KA
0.145 kW, 329 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

Scale = 1:2,000,000



KOHL protected vs. KARQ Interfering

03-28-2007 30 Arc-Sec. Sec. Terrain Data

KOHL BLED19930503KA
Channel = 207A
Max ERP = 0.145 kW
RCAMSL = 329 M
N. Lat. 37 32 14.0
W. Lng. 121 54 14.0
Protected
60 dBu

KARQ
Channel = 207B1
Max ERP = 0.45 kW
RCAMSL = 945 M
N. Lat. 38 07 10.0
W. Lng. 120 43 27.0
Interfering
40 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
003.0	000.1450	0145.0	013.5	243.9	000.4500	0726.3	115.1	38.06
004.0	000.1450	0152.3	013.9	244.0	000.4500	0726.3	114.7	38.16
005.0	000.1450	0159.6	014.3	244.1	000.4500	0726.3	114.3	38.28
006.0	000.1450	0166.6	014.6	244.2	000.4500	0726.3	113.9	38.39
007.0	000.1450	0171.7	014.8	244.2	000.4500	0726.3	113.5	38.48
008.0	000.1450	0178.7	015.2	244.2	000.4500	0726.3	113.1	38.59
009.0	000.1450	0185.3	015.4	244.3	000.4500	0726.3	112.7	38.69
010.0	000.1450	0190.9	015.6	244.3	000.4500	0726.3	112.4	38.79
011.0	000.1450	0195.7	015.8	244.3	000.4500	0726.3	112.1	38.88
012.0	000.1450	0198.4	016.0	244.2	000.4500	0726.3	111.8	38.96
013.0	000.1450	0199.2	016.0	244.2	000.4500	0726.3	111.5	39.03
014.0	000.1450	0199.7	016.0	244.1	000.4500	0726.3	111.3	39.09
015.0	000.1450	0199.7	016.0	244.0	000.4500	0726.3	111.1	39.15
016.0	000.1450	0198.9	016.0	243.9	000.4500	0726.3	110.9	39.20
017.0	000.1450	0197.5	015.9	243.8	000.4500	0726.3	110.7	39.25
018.0	000.1450	0195.1	015.8	243.6	000.4500	0726.3	110.6	39.28
019.0	000.1450	0192.1	015.7	243.5	000.4500	0725.4	110.5	39.30
020.0	000.1450	0188.5	015.5	243.3	000.4500	0725.4	110.4	39.32
021.0	000.1450	0184.4	015.4	243.2	000.4500	0725.4	110.4	39.34
022.0	000.1450	0180.1	015.2	243.0	000.4500	0725.4	110.3	39.35
023.0	000.1450	0176.5	015.1	242.8	000.4500	0725.4	110.3	39.37
024.0	000.1450	0173.4	014.9	242.7	000.4500	0725.4	110.2	39.38
025.0	000.1450	0170.5	014.8	242.5	000.4500	0725.4	110.2	39.40
026.0	000.1450	0167.6	014.7	242.4	000.4500	0724.1	110.1	39.39
027.0	000.1450	0164.6	014.5	242.2	000.4500	0724.1	110.1	39.40
028.0	000.1450	0161.7	014.4	242.1	000.4500	0724.1	110.1	39.41
029.0	000.1450	0159.5	014.3	241.9	000.4500	0724.1	110.0	39.42
030.0	000.1450	0158.4	014.2	241.8	000.4500	0724.1	109.9	39.44
031.0	000.1450	0157.6	014.2	241.7	000.4500	0724.1	109.8	39.47
032.0	000.1450	0156.3	014.1	241.6	000.4500	0724.1	109.8	39.49
033.0	000.1450	0154.4	014.0	241.4	000.4500	0722.1	109.7	39.47
034.0	000.1450	0152.3	013.9	241.3	000.4500	0722.1	109.7	39.48
035.0	000.1450	0150.5	013.8	241.2	000.4500	0722.1	109.7	39.48
036.0	000.1450	0149.7	013.8	241.0	000.4500	0722.1	109.6	39.50
037.0	000.1450	0149.9	013.8	240.9	000.4500	0722.1	109.5	39.53
038.0	000.1450	0151.0	013.8	240.8	000.4500	0722.1	109.4	39.57
039.0	000.1450	0152.5	013.9	240.7	000.4500	0722.1	109.2	39.61
040.0	000.1450	0153.9	014.0	240.6	000.4500	0722.1	109.1	39.66
041.0	000.1450	0154.8	014.0	240.5	000.4500	0719.5	109.0	39.66
042.0	000.1450	0154.7	014.0	240.4	000.4500	0719.5	108.9	39.68
043.0	000.1450	0153.7	014.0	240.2	000.4500	0719.5	108.9	39.69
044.0	000.1450	0152.2	013.9	240.1	000.4500	0719.5	108.9	39.69
045.0	000.1450	0150.7	013.8	240.0	000.4500	0719.5	108.9	39.68
046.0	000.1450	0149.3	013.7	239.8	000.4500	0719.5	108.9	39.68

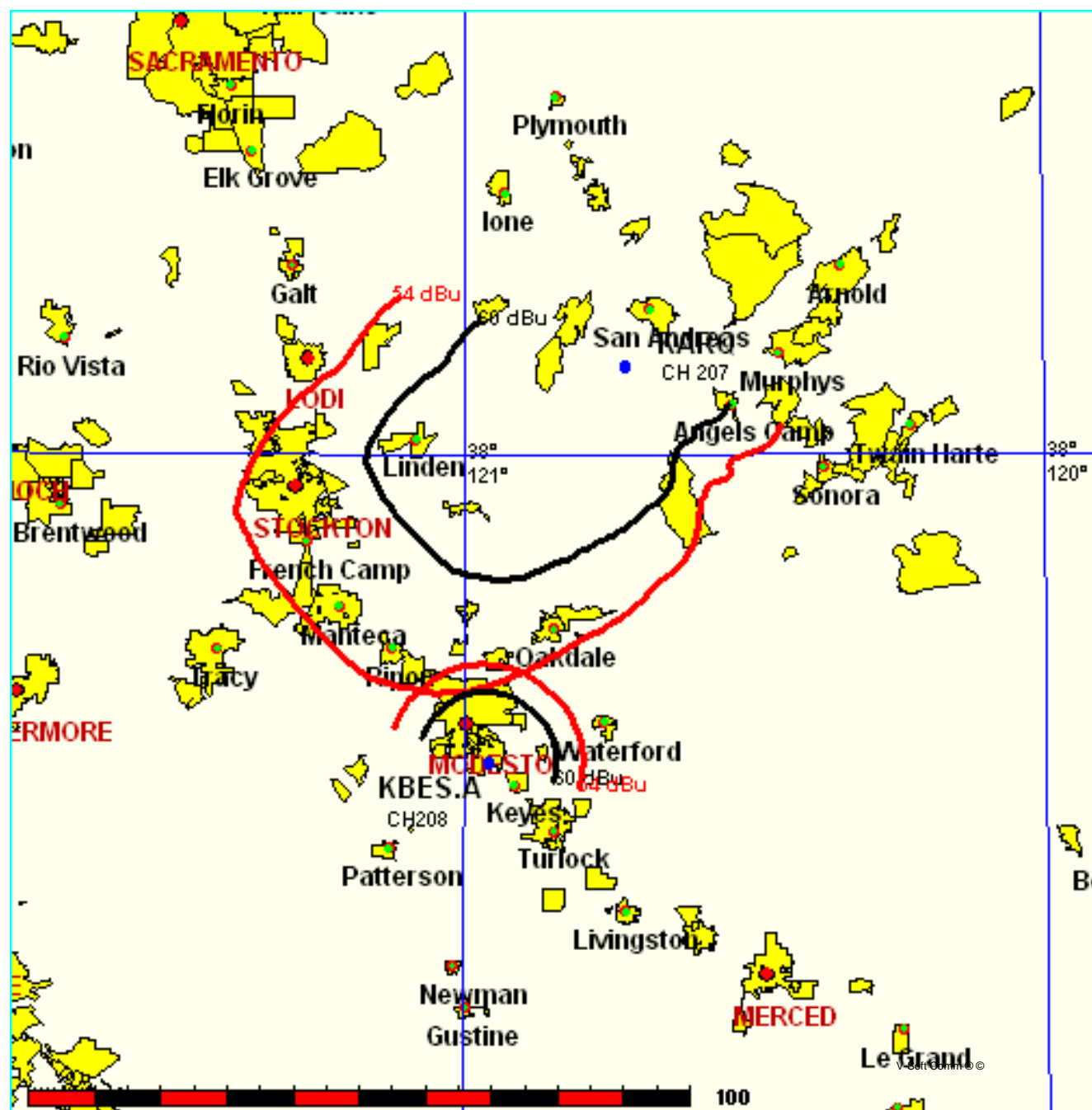
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Exhibit 16-A1

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047.0	000.1450	0148.3	013.7	239.7	000.4500	0719.5	108.9	39.68
048.0	000.1450	0147.1	013.6	239.6	000.4500	0719.5	108.9	39.68
049.0	000.1450	0145.4	013.5	239.4	000.4500	0716.6	108.9	39.63
050.0	000.1450	0143.1	013.4	239.3	000.4500	0716.6	109.0	39.61
051.0	000.1450	0140.1	013.3	239.2	000.4500	0716.6	109.1	39.58
052.0	000.1450	0136.6	013.1	239.0	000.4500	0716.6	109.3	39.54
053.0	000.1450	0133.2	012.9	238.9	000.4500	0716.6	109.4	39.49
054.0	000.1450	0130.2	012.8	238.8	000.4500	0716.6	109.5	39.46
055.0	000.1450	0127.0	012.6	238.7	000.4500	0716.6	109.7	39.42
056.0	000.1450	0122.1	012.4	238.6	000.4500	0716.6	109.9	39.36
057.0	000.1450	0115.3	012.1	238.4	000.4500	0713.5	110.2	39.23
058.0	000.1450	0108.3	011.7	238.3	000.4500	0713.5	110.6	39.14
059.0	000.1450	0103.0	011.4	238.2	000.4500	0713.5	110.9	39.06
060.0	000.1450	0099.7	011.3	238.1	000.4500	0713.5	111.0	39.01
061.0	000.1450	0096.9	011.1	238.0	000.4500	0713.5	111.2	38.97
062.0	000.1450	0093.2	010.9	237.9	000.4500	0713.5	111.4	38.91
063.0	000.1450	0088.7	010.7	237.9	000.4500	0713.5	111.7	38.83
064.0	000.1450	0084.0	010.4	237.8	000.4500	0713.5	112.0	38.75
065.0	000.1450	0079.9	010.1	237.7	000.4500	0713.5	112.2	38.68
066.0	000.1450	0077.0	010.0	237.6	000.4500	0713.5	112.4	38.62
067.0	000.1450	0075.7	009.9	237.5	000.4500	0713.5	112.5	38.59
068.0	000.1450	0074.3	009.8	237.5	000.4500	0710.4	112.7	38.52
069.0	000.1450	0069.9	009.5	237.4	000.4500	0710.4	113.0	38.44
070.0	000.1450	0061.6	009.0	237.4	000.4500	0710.4	113.6	38.28
071.0	000.1450	0050.1	008.0	237.4	000.4500	0710.4	114.5	38.01



KBES protected vs. KARQ Interfering

03-28-2007 30 Arc-Sec. Sec. Terrain Data

KBES. A BPED20070116ACP
 Channel = 208A
 Max ERP = 0.15 kW
 RCAMSL = 109 M
 N. Lat. 37 35 21.0
 W. Lng. 120 57 23.0
 Protected
 60 dBu

KARQ
 Channel = 207B1
 Max ERP = 0.45 kW
 RCAMSL = 945 M
 N. Lat. 38 07 10.0
 W. Lng. 120 43 27.0
 Interfering
 54 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
319.0	000.1500	0085.0	010.5	208.2	000.3211	0651.9	057.8	53.09
320.0	000.1500	0085.0	010.5	208.2	000.3202	0651.9	057.6	53.14
321.0	000.1500	0085.0	010.5	208.1	000.3192	0651.9	057.4	53.18
322.0	000.1500	0085.0	010.5	208.0	000.3182	0651.9	057.3	53.23
323.0	000.1500	0085.0	010.5	207.9	000.3172	0651.9	057.1	53.28
324.0	000.1500	0085.0	010.5	207.9	000.3161	0651.9	056.9	53.32
325.0	000.1500	0085.0	010.5	207.8	000.3149	0651.9	056.8	53.36
326.0	000.1500	0085.0	010.5	207.7	000.3138	0651.9	056.6	53.41
327.0	000.1500	0085.0	010.5	207.6	000.3125	0651.9	056.5	53.45
328.0	000.1500	0085.0	010.5	207.5	000.3113	0651.9	056.3	53.49
329.0	000.1500	0085.0	010.5	207.4	000.3100	0650.0	056.1	53.50
330.0	000.1500	0085.0	010.5	207.3	000.3086	0650.0	056.0	53.54
331.0	000.1500	0085.0	010.5	207.2	000.3072	0650.0	055.8	53.58
332.0	000.1500	0085.0	010.5	207.1	000.3058	0650.0	055.7	53.61
333.0	000.1500	0085.0	010.5	207.0	000.3043	0650.0	055.5	53.64
334.0	000.1500	0085.0	010.5	206.9	000.3028	0650.0	055.4	53.68
335.0	000.1500	0085.0	010.5	206.8	000.3013	0650.0	055.2	53.71
336.0	000.1500	0085.0	010.5	206.6	000.2997	0650.0	055.1	53.74
337.0	000.1500	0085.0	010.5	206.5	000.2980	0650.0	054.9	53.76
338.0	000.1500	0085.0	010.5	206.4	000.2964	0647.7	054.8	53.76
339.0	000.1500	0084.9	010.5	206.3	000.2946	0647.7	054.7	53.78
340.0	000.1500	0084.7	010.5	206.1	000.2927	0647.7	054.6	53.80
341.0	000.1500	0084.5	010.5	206.0	000.2908	0647.7	054.4	53.82
342.0	000.1500	0084.3	010.5	205.8	000.2890	0647.7	054.3	53.83
343.0	000.1500	0084.4	010.5	205.7	000.2872	0647.7	054.2	53.85
344.0	000.1500	0084.4	010.5	205.5	000.2853	0647.7	054.1	53.87
345.0	000.1500	0084.3	010.5	205.4	000.2834	0644.0	053.9	53.83
346.0	000.1500	0083.9	010.5	205.2	000.2813	0644.0	053.8	53.84
347.0	000.1500	0083.5	010.4	205.1	000.2791	0644.0	053.7	53.84
348.0	000.1500	0083.3	010.4	204.9	000.2770	0644.0	053.6	53.84
349.0	000.1500	0083.1	010.4	204.7	000.2749	0644.0	053.5	53.85
350.0	000.1500	0082.9	010.4	204.6	000.2728	0644.0	053.4	53.85
351.0	000.1500	0082.8	010.4	204.4	000.2707	0638.6	053.4	53.78
352.0	000.1500	0082.7	010.4	204.2	000.2686	0638.6	053.3	53.78
353.0	000.1500	0082.7	010.4	204.1	000.2665	0638.6	053.2	53.78
354.0	000.1500	0082.6	010.4	203.9	000.2644	0638.6	053.1	53.77
355.0	000.1500	0082.5	010.4	203.7	000.2623	0638.6	053.0	53.77
356.0	000.1500	0082.3	010.4	203.5	000.2601	0638.6	052.9	53.76
357.0	000.1500	0082.2	010.4	203.4	000.2578	0632.7	052.8	53.67
358.0	000.1500	0082.0	010.4	203.2	000.2556	0632.7	052.8	53.66
359.0	000.1500	0081.7	010.3	203.0	000.2533	0632.7	052.7	53.64
000.0	000.1500	0081.3	010.3	202.8	000.2510	0632.7	052.7	53.62
001.0	000.1500	0080.9	010.3	202.6	000.2487	0632.7	052.6	53.60
002.0	000.1500	0080.6	010.3	202.4	000.2464	0627.8	052.6	53.51

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003.0	000.1500	0080.2	010.2	202.2	000.2441	0627.8	052.5	53.48
004.0	000.1500	0080.0	010.2	202.0	000.2419	0627.8	052.5	53.45
005.0	000.1500	0079.8	010.2	201.9	000.2396	0627.8	052.4	53.43
006.0	000.1500	0079.7	010.2	201.7	000.2374	0627.8	052.4	53.41
007.0	000.1500	0079.7	010.2	201.5	000.2352	0623.5	052.4	53.32
008.0	000.1500	0079.7	010.2	201.3	000.2330	0623.5	052.3	53.30
009.0	000.1500	0079.7	010.2	201.1	000.2307	0623.5	052.3	53.27
010.0	000.1500	0079.6	010.2	200.9	000.2285	0623.5	052.2	53.24
011.0	000.1500	0079.6	010.2	200.7	000.2263	0623.5	052.2	53.21
012.0	000.1500	0079.5	010.2	200.5	000.2241	0623.5	052.2	53.17
013.0	000.1500	0079.5	010.2	200.3	000.2218	0618.3	052.2	53.07
014.0	000.1500	0079.4	010.2	200.1	000.2196	0618.3	052.2	53.03
015.0	000.1500	0079.3	010.2	199.9	000.2176	0618.3	052.1	53.00
