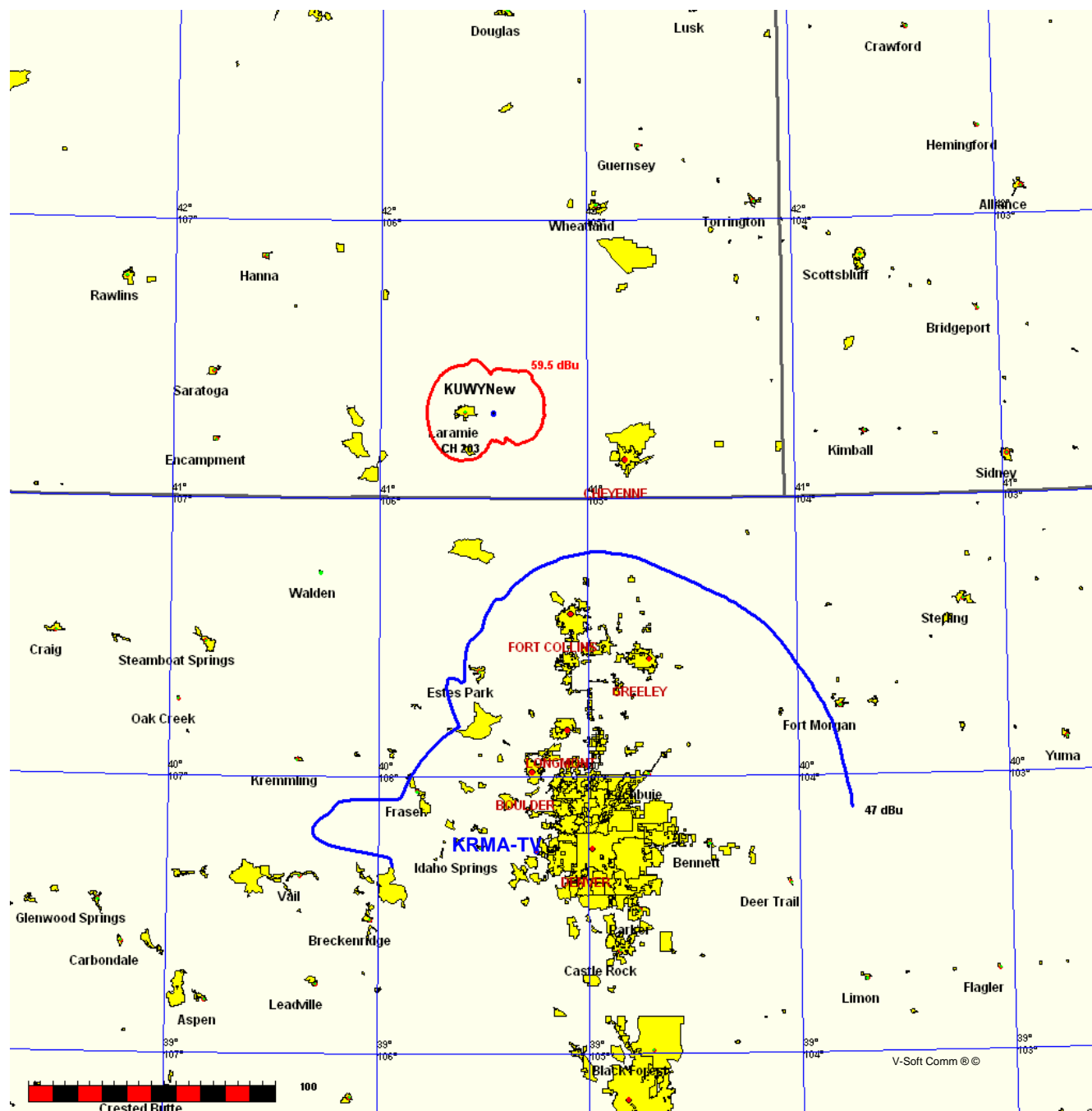


FMCommander Single Allocation Study  
01-18-2008

KUWYNew CH 203 A  
0.137 kW 2703 M COR  
Intef. = 59.5 dBu

KRMATV CH 06- 2E BLET19950504KE 7  
100.0 kW, 2349 M COR  
Prot. = 47 dBu



01-18-2008 USGS 03 SEC Terrain Data

KRMATV BLET19950504KE 7  
 Channel = 06-2E  
 Max ERP = 100 kW  
 RCAMSL = 2349 M  
 N. Lat. 39 43 49.0  
 W. Lng. 105 15 00.0  
 Protected  
 47 dBu

KUWYNew  
 Channel = 203A  
 Max ERP = 0.13735 kW  
 RCAMSL = 2703 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Interfering  
 59.5 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
294.0	100.0000	0021.6	059.0	193.5	000.1374	0194.3	155.9	12.28
295.0	100.0000	0022.2	059.0	193.4	000.1374	0193.7	154.9	12.43
296.0	100.0000	0019.9	059.0	193.3	000.1374	0193.2	153.9	12.58
297.0	100.0000	0008.8	059.0	193.3	000.1374	0192.5	152.9	12.73
298.0	100.0000	-0010.2	059.0	193.2	000.1374	0191.9	151.9	12.88
299.0	100.0000	-0032.8	059.0	193.1	000.1374	0191.2	150.9	13.03
300.0	100.0000	-0071.3	059.0	192.9	000.1374	0190.6	149.9	13.18
301.0	100.0000	-0093.0	059.0	192.8	000.1374	0189.9	148.9	13.33
302.0	100.0000	-0095.4	059.0	192.7	000.1374	0189.3	148.0	13.48
303.0	100.0000	-0088.1	059.0	192.6	000.1374	0188.6	147.0	13.63
304.0	100.0000	-0075.8	059.0	192.4	000.1374	0187.8	146.0	13.78
305.0	100.0000	-0068.2	059.0	192.3	000.1374	0186.8	145.1	13.93
306.0	100.0000	-0053.1	059.0	192.1	000.1374	0185.7	144.1	14.08
307.0	100.0000	-0034.8	059.0	191.9	000.1374	0184.4	143.2	14.22
308.0	100.0000	-0023.3	059.0	191.8	000.1374	0182.7	142.3	14.35
309.0	100.0000	-0025.1	059.0	191.6	000.1374	0180.5	141.3	14.47
310.0	100.0000	-0040.7	059.0	191.4	000.1374	0177.9	140.4	14.58
311.0	100.0000	-0065.1	059.0	191.2	000.1374	0175.4	139.5	14.69
312.0	100.0000	-0082.8	059.0	191.0	000.1374	0173.0	138.7	14.81
313.0	100.0000	-0096.8	059.0	190.7	000.1374	0170.2	137.8	14.91
314.0	100.0000	-0112.2	059.0	190.5	000.1374	0167.2	136.9	15.00
315.0	100.0000	-0121.1	059.0	190.3	000.1374	0164.3	136.1	15.09
316.0	100.0000	-0137.2	059.0	190.0	000.1374	0161.5	135.2	15.18
317.0	100.0000	-0144.4	059.0	189.8	000.1374	0159.0	134.4	15.28
318.0	100.0000	-0130.1	059.0	189.5	000.1374	0156.3	133.6	15.37
319.0	100.0000	-0109.4	059.0	189.2	000.1374	0153.1	132.8	15.45
320.0	100.0000	-0091.5	059.0	188.9	000.1374	0149.4	132.0	15.50
321.0	100.0000	-0077.5	059.0	188.6	000.1374	0145.6	131.2	15.55
322.0	100.0000	-0063.6	059.0	188.3	000.1374	0142.2	130.5	15.60
323.0	100.0000	-0054.8	059.0	188.0	000.1374	0138.4	129.7	15.64
324.0	100.0000	-0043.6	059.0	187.7	000.1374	0134.2	129.0	15.66
325.0	100.0000	-0030.5	059.0	187.3	000.1374	0129.4	128.3	15.66
326.0	100.0000	-0016.2	059.0	187.0	000.1374	0124.3	127.6	15.65
327.0	100.0000	0003.0	059.0	186.6	000.1374	0119.6	127.0	15.65
328.0	100.0000	0025.0	059.0	186.3	000.1374	0115.5	126.3	15.65

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
329.0	100.0000	0048.3	066.8	188.1	000.1374	0140.2	119.6	17.57
330.0	100.0000	0061.3	070.9	189.0	000.1374	0150.0	115.7	18.61
331.0	100.0000	0075.4	074.9	189.7	000.1374	0158.8	111.7	19.66
332.0	100.0000	0083.1	076.9	189.8	000.1374	0159.8	109.3	20.19
333.0	100.0000	0087.1	077.9	189.6	000.1374	0157.4	107.8	20.46
334.0	100.0000	0084.6	077.3	188.8	000.1374	0148.1	107.5	20.21
335.0	100.0000	0079.1	075.9	187.8	000.1374	0136.1	107.9	19.71
336.0	100.0000	0071.8	073.9	186.7	000.1374	0120.1	108.8	18.97
337.0	100.0000	0072.7	074.2	186.2	000.1374	0114.1	108.0	18.94
338.0	100.0000	0083.8	077.1	186.3	000.1374	0115.6	104.8	19.67
339.0	100.0000	0098.0	080.4	186.5	000.1374	0117.6	101.3	20.55
340.0	100.0000	0114.2	083.5	186.6	000.1374	0118.5	097.9	21.41
341.0	100.0000	0132.4	086.3	186.5	000.1374	0118.0	094.7	22.21
342.0	100.0000	0146.0	088.1	186.1	000.1374	0113.9	092.4	22.65
343.0	100.0000	0150.9	088.8	185.4	000.1374	0107.8	091.2	22.71
344.0	100.0000	0157.2	089.5	184.7	000.1374	0101.8	089.9	22.79
345.0	100.0000	0162.2	090.1	183.9	000.1374	0098.5	088.8	22.93
346.0	100.0000	0174.0	091.4	183.1	000.1374	0095.7	087.1	23.27
347.0	100.0000	0203.8	094.5	182.7	000.1374	0093.7	083.7	24.11
348.0	100.0000	0225.3	096.6	181.9	000.1374	0092.2	081.3	24.71
349.0	100.0000	0247.2	098.7	181.1	000.1374	0091.4	078.8	25.34
350.0	100.0000	0269.1	100.8	180.2	000.1374	0090.5	076.4	25.96
351.0	100.0000	0285.4	102.3	179.0	000.1374	0095.0	074.7	26.69
352.0	100.0000	0285.0	102.3	177.6	000.1374	0097.6	074.5	26.89
353.0	100.0000	0290.5	102.7	176.3	000.1374	0097.3	073.9	27.05
354.0	100.0000	0310.9	104.4	174.9	000.1374	0094.0	072.1	27.37
355.0	100.0000	0339.3	106.5	173.5	000.1374	0091.3	070.0	27.81
356.0	100.0000	0355.8	107.7	171.9	000.1374	0096.3	068.9	28.43
357.0	100.0000	0371.0	108.9	170.2	000.1374	0102.3	067.9	29.07
358.0	100.0000	0391.0	110.6	168.4	000.1374	0107.7	066.5	29.80
359.0	100.0000	0406.0	111.9	166.5	000.1374	0111.6	065.6	30.31
000.0	100.0000	0418.5	113.0	164.6	000.1374	0121.2	065.0	31.04
001.0	100.0000	0429.9	114.0	162.7	000.1374	0129.1	064.6	31.59
002.0	100.0000	0441.2	115.1	160.7	000.1374	0129.2	064.3	31.69
003.0	100.0000	0451.3	116.0	158.8	000.1374	0127.9	064.3	31.64
004.0	100.0000	0458.2	116.6	156.9	000.1374	0121.2	064.6	31.17
005.0	100.0000	0471.1	117.8	154.8	000.1374	0099.8	064.5	29.96
006.0	100.0000	0480.4	118.6	152.8	000.1374	0103.1	064.9	30.05
007.0	100.0000	0486.9	119.2	151.0	000.1374	0105.4	065.6	29.98
008.0	100.0000	0494.3	119.9	149.2	000.1374	0122.2	066.3	30.68
009.0	100.0000	0504.1	120.8	147.4	000.1374	0140.4	067.0	31.43
010.0	100.0000	0512.8	121.5	145.6	000.1374	0161.0	067.9	32.20
011.0	100.0000	0521.0	122.2	144.0	000.1374	0176.3	068.9	32.57
012.0	100.0000	0526.9	122.7	142.5	000.1374	0186.0	070.2	32.56
013.0	100.0000	0531.2	123.1	141.2	000.1374	0191.5	071.6	32.31
014.0	100.0000	0534.1	123.3	140.0	000.1374	0193.4	073.2	31.87
015.0	100.0000	0537.6	123.6	138.9	000.1374	0193.7	074.8	31.36
016.0	100.0000	0542.4	124.0	137.7	000.1374	0194.7	076.4	30.87
017.0	100.0000	0547.3	124.4	136.7	000.1374	0196.3	078.1	30.39
018.0	100.0000	0550.5	124.6	135.8	000.1374	0198.0	079.9	29.89
019.0	100.0000	0552.4	124.7	135.0	000.1374	0200.0	081.7	29.36

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
020.0	100.0000	0552.4	124.7	134.3	000.1374	0201.5	083.7	28.79
021.0	100.0000	0551.3	124.7	133.8	000.1374	0203.6	085.7	28.23
022.0	100.0000	0549.7	124.5	133.3	000.1374	0206.1	087.8	27.68
023.0	100.0000	0548.3	124.4	132.9	000.1374	0208.4	089.9	27.12
024.0	100.0000	0547.7	124.4	132.5	000.1374	0210.3	091.9	26.55
025.0	100.0000	0548.1	124.4	132.0	000.1374	0211.8	094.0	25.98
026.0	100.0000	0549.7	124.5	131.6	000.1374	0213.4	096.1	25.42
027.0	100.0000	0550.3	124.6	131.2	000.1374	0214.6	098.1	24.84
028.0	100.0000	0553.1	124.8	130.8	000.1374	0216.1	100.2	24.28
029.0	100.0000	0557.3	125.1	130.4	000.1374	0217.6	102.3	23.74
030.0	100.0000	0560.4	125.3	130.0	000.1374	0218.6	104.4	23.18
031.0	100.0000	0562.4	125.5	129.7	000.1374	0219.5	106.5	22.63
032.0	100.0000	0564.2	125.6	129.5	000.1374	0220.1	108.7	22.10
033.0	100.0000	0567.5	125.9	129.2	000.1374	0220.9	110.8	21.60
034.0	100.0000	0572.3	126.2	129.0	000.1374	0221.6	113.0	21.12
035.0	100.0000	0578.6	126.7	128.6	000.1374	0222.3	115.1	20.66
036.0	100.0000	0585.3	127.1	128.4	000.1374	0222.8	117.3	20.21
037.0	100.0000	0590.7	127.5	128.1	000.1374	0223.3	119.5	19.75
038.0	100.0000	0596.3	127.9	127.9	000.1374	0223.8	121.8	19.31
039.0	100.0000	0601.8	128.2	127.8	000.1374	0224.3	124.0	18.87
040.0	100.0000	0606.7	128.6	127.7	000.1374	0224.7	126.2	18.43
041.0	100.0000	0611.5	128.9	127.6	000.1374	0225.0	128.5	17.99
042.0	100.0000	0616.5	129.2	127.5	000.1374	0225.2	130.8	17.56
043.0	100.0000	0621.2	129.5	127.5	000.1374	0225.4	133.1	17.12
044.0	100.0000	0625.9	129.8	127.4	000.1374	0225.5	135.3	16.67
045.0	100.0000	0630.6	130.0	127.4	000.1374	0225.5	137.6	16.23
046.0	100.0000	0634.2	130.3	127.5	000.1374	0225.3	139.9	15.79
047.0	100.0000	0636.2	130.4	127.6	000.1374	0225.0	142.2	15.36
048.0	100.0000	0636.4	130.4	127.7	000.1374	0224.5	144.4	14.93
049.0	100.0000	0635.5	130.3	127.9	000.1374	0223.9	146.6	14.52
050.0	100.0000	0634.1	130.2	128.1	000.1374	0223.4	148.8	14.11
051.0	100.0000	0632.6	130.2	128.3	000.1374	0222.9	151.0	13.71
052.0	100.0000	0631.0	130.1	128.6	000.1374	0222.4	153.2	13.32
053.0	100.0000	0629.8	130.0	128.8	000.1374	0222.0	155.4	12.93
054.0	100.0000	0628.2	129.9	129.0	000.1374	0221.4	157.6	12.55

# Channel-Six TV Protection Study

KRMATV LI 06- 2E Dom Int 100.000 kW 292 M HAAT VHY  
Denver CO 2349.0 M COR AMSL  
Lat= 39 43 49.0, Lng= 105 15 00.0  
Rocky Mountain Public Broadc BLET19950504KE 7  
Fac ID# 14040  
Dist.=176.27 km, Azi=174.3°, Rev Azi=354.4°

Direct line HAAT Grade B, 47 dBu= 105.24 km & Grade A= 55.78 km

Distance from reference to Grade B = 71.03 km

Cutoff Dist from Full Service or Class CA= 246

Maximum Co-located power= 3.1 kW

KRMATV Signal Contour at Reference location = 28.9 dBu

CH. 203, U/D ratio = 12.5 dB, Maximum FM signal = 59.5 dBu , 6 dB credit added

## TV/FM D to U values

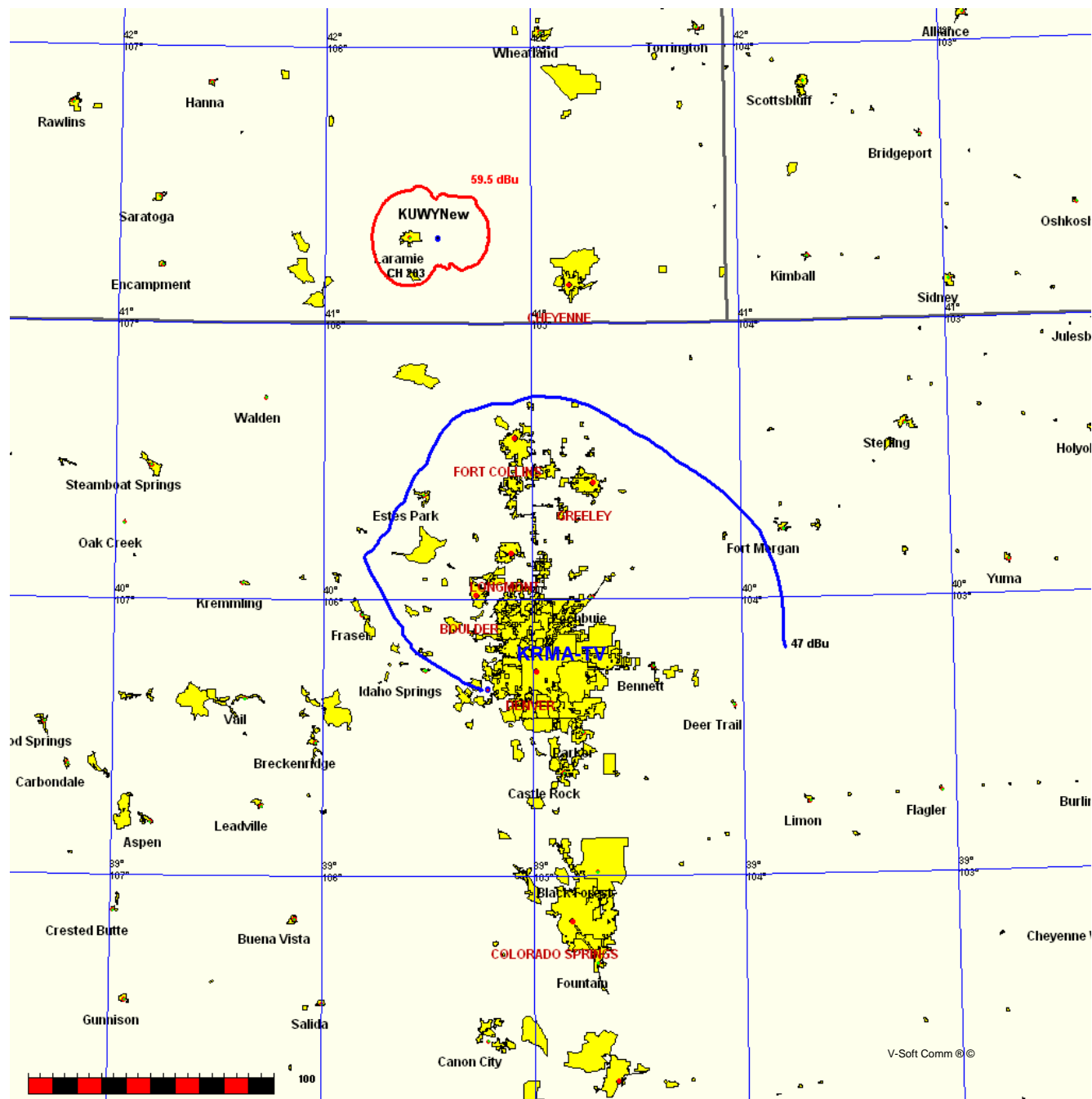
47.0	59.5	55.0	64.2	63.0	69.3	71.0	75.4	79.0	82.2	87.0	89.4
48.0	60.1	56.0	64.8	64.0	69.9	72.0	76.2	80.0	83.1	88.0	90.3
49.0	60.6	57.0	65.4	65.0	70.6	73.0	77.1	81.0	84.0	89.0	91.2
50.0	61.2	58.0	66.0	66.0	71.4	74.0	77.9	82.0	84.9	90.0	92.1
51.0	61.8	59.0	66.6	67.0	72.1	75.0	78.8	83.0	85.8	91.0	92.1
52.0	62.4	60.0	67.3	68.0	72.9	76.0	79.6	84.0	86.7	92.0	92.1
53.0	63.0	61.0	67.9	69.0	73.7	77.0	80.5	85.0	87.6	93.0	92.1
54.0	63.6	62.0	68.6	70.0	74.6	78.0	81.4	86.0	88.5	94.0	92.1

University Of Wyoming  
KUWYNew v. KRMA-TV (CP)

FMCommander Single Allocation Study  
01-18-2008

KUWYNew CH 203 A  
0.137 kW 2703 M COR  
Intef. = 59.5 dBu

KRMATV CH 06- 2E BPET19990107KE 3  
100.0 kW, 2363 M COR DA  
Prot. = 47 dBu



01-18-2008 USGS 03 SEC Terrain Data

KRMATV BPET19990107KE 3  
 Channel = 06-2E  
 Max ERP = 100 kW  
 RCAMSL = 2363 M  
 N. Lat. 39 40 25.0  
 W. Lng. 105 13 01.0  
 Protected  
 47 dBu

KUWYNew  
 Channel = 203A  
 Max ERP = 0.13735 kW  
 RCAMSL = 2703 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Interfering  
 59.5 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
294.0	000.3158	0042.4	019.1	179.0	000.1374	0094.8	174.0	06.36
295.0	000.4225	0050.1	022.3	180.0	000.1374	0090.8	172.3	06.52
296.0	000.5446	0065.7	026.7	181.2	000.1374	0091.6	170.1	06.95
297.0	000.6823	0080.7	030.8	182.4	000.1374	0093.0	168.0	07.39
298.0	000.8354	0087.8	033.7	183.2	000.1374	0096.1	166.2	07.81
299.0	001.0040	0089.3	035.4	183.7	000.1374	0097.8	165.0	08.10
300.0	001.1881	0085.7	036.1	183.8	000.1374	0098.3	164.1	08.27
301.0	001.4641	0085.1	037.6	184.2	000.1374	0099.6	162.9	08.54
302.0	001.7689	0088.7	039.8	184.8	000.1374	0102.5	161.3	08.93
303.0	002.1025	0090.2	041.5	185.2	000.1374	0105.9	159.9	09.29
304.0	002.4649	0084.4	041.7	185.1	000.1374	0105.4	159.2	09.40
305.0	002.8561	0081.7	042.4	185.2	000.1374	0106.1	158.2	09.58
306.0	003.2761	0078.5	042.8	185.2	000.1374	0106.1	157.3	09.73
307.0	003.7249	0086.7	045.6	185.9	000.1374	0112.2	155.2	10.27
308.0	004.2025	0095.0	048.3	186.7	000.1374	0119.7	153.1	10.82
309.0	004.7089	0103.5	051.0	187.3	000.1374	0129.2	151.0	11.43
310.0	005.2441	0107.2	052.6	187.7	000.1374	0134.1	149.4	11.82
311.0	005.8806	0112.6	054.5	188.1	000.1374	0139.8	147.6	12.28
312.0	006.5536	0121.5	056.9	188.7	000.1374	0146.3	145.5	12.82
313.0	007.2630	0135.2	059.9	189.4	000.1374	0155.9	143.0	13.52
314.0	008.0089	0154.8	063.5	190.4	000.1374	0166.3	140.1	14.35
315.0	008.7912	0178.6	067.2	191.4	000.1374	0178.7	137.2	15.23
316.0	009.6100	0210.6	071.1	192.6	000.1374	0188.5	134.0	16.08
317.0	010.4652	0227.0	073.5	193.1	000.1374	0191.5	131.7	16.61
318.0	011.3569	0222.8	073.9	192.9	000.1374	0190.5	130.4	16.84
319.0	012.2850	0211.4	073.6	192.5	000.1374	0188.3	129.5	16.96
320.0	013.2496	0199.7	073.3	192.0	000.1374	0185.1	128.7	17.05
321.0	014.2582	0195.2	073.6	191.8	000.1374	0182.9	127.5	17.23
322.0	015.3037	0191.0	073.9	191.5	000.1374	0179.8	126.3	17.39
323.0	016.3863	0188.2	074.3	191.3	000.1374	0176.6	125.0	17.55
324.0	017.5059	0187.9	075.0	191.1	000.1374	0174.5	123.6	17.77
325.0	018.6624	0187.5	075.6	190.9	000.1374	0172.0	122.3	17.98
326.0	019.8559	0181.0	075.6	190.4	000.1374	0166.4	121.3	18.01
327.0	021.0865	0174.7	075.6	190.0	000.1374	0161.2	120.4	18.04
328.0	022.3540	0171.4	075.8	189.6	000.1374	0157.6	119.4	18.14

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
329.0	023.6585	0175.3	076.8	189.4	000.1374	0155.7	117.7	18.39
330.0	025.0000	0184.7	078.3	189.4	000.1374	0155.3	115.8	18.76
331.0	026.2656	0193.8	079.6	189.3	000.1374	0154.0	113.8	19.09
332.0	027.5625	0203.1	081.0	189.1	000.1374	0152.3	111.9	19.41
333.0	028.8906	0209.4	082.0	188.9	000.1374	0148.8	110.2	19.64
334.0	030.2500	0212.5	082.8	188.5	000.1374	0144.1	108.8	19.79
335.0	031.6406	0208.1	082.8	187.9	000.1374	0136.9	107.9	19.72
336.0	033.0625	0207.3	083.2	187.3	000.1374	0129.2	106.8	19.69
337.0	034.5156	0220.5	084.8	187.1	000.1374	0125.8	104.7	20.06
338.0	036.0000	0236.4	086.7	186.9	000.1374	0122.9	102.3	20.50
339.0	037.5156	0245.7	088.0	186.5	000.1374	0117.7	100.5	20.74
340.0	039.0625	0258.0	089.6	186.1	000.1374	0113.6	098.4	21.09
341.0	040.3733	0269.3	091.0	185.6	000.1374	0109.6	096.4	21.42
342.0	041.7058	0278.3	092.2	185.0	000.1374	0104.6	094.7	21.65
343.0	043.0598	0286.0	093.2	184.4	000.1374	0100.1	093.1	21.86
344.0	044.4356	0287.9	093.7	183.5	000.1374	0097.2	092.1	22.01
345.0	045.8329	0297.3	094.8	182.8	000.1374	0094.1	090.5	22.28
346.0	047.2519	0331.8	097.6	182.3	000.1374	0092.6	087.4	23.06
347.0	048.6925	0361.3	099.8	181.6	000.1374	0091.9	084.8	23.72
348.0	050.1547	0383.0	101.7	180.7	000.1374	0090.8	082.6	24.28
349.0	051.6386	0403.6	103.7	179.8	000.1374	0091.3	080.2	24.95
350.0	053.1441	0422.9	105.6	178.7	000.1374	0095.8	078.0	25.80
351.0	054.2285	0437.1	107.1	177.5	000.1374	0097.7	076.3	26.37
352.0	055.3238	0453.1	108.7	176.2	000.1374	0097.1	074.5	26.85
353.0	056.4301	0467.4	110.2	174.8	000.1374	0093.6	073.0	27.11
354.0	057.5474	0476.3	111.2	173.3	000.1374	0091.3	071.9	27.27
355.0	058.6756	0487.1	112.4	171.7	000.1374	0097.3	070.7	27.95
356.0	059.8147	0488.9	112.8	170.1	000.1374	0102.9	070.5	28.34
357.0	060.9649	0488.7	113.1	168.4	000.1374	0107.6	070.5	28.59
358.0	062.1259	0490.7	113.5	166.8	000.1374	0110.8	070.4	28.79
359.0	063.2979	0492.9	113.9	165.2	000.1374	0118.0	070.4	29.17
000.0	064.4809	0496.2	114.5	163.5	000.1374	0127.0	070.4	29.63
001.0	065.1088	0503.0	115.2	161.8	000.1374	0129.7	070.4	29.80
002.0	065.7397	0506.6	115.6	160.1	000.1374	0128.6	070.6	29.65
003.0	066.3736	0504.7	115.6	158.6	000.1374	0127.9	071.5	29.35
004.0	067.0106	0502.8	115.5	157.2	000.1374	0123.8	072.4	28.87
005.0	067.6506	0506.2	116.0	155.6	000.1374	0106.5	073.0	27.80
006.0	068.2937	0512.9	116.7	154.0	000.1374	0097.6	073.4	27.20
007.0	068.9398	0524.5	117.8	152.2	000.1374	0103.0	073.6	27.44
008.0	069.5890	0535.5	118.8	150.4	000.1374	0108.4	074.0	27.61
009.0	070.2412	0545.7	119.8	148.7	000.1374	0128.2	074.6	28.43
010.0	070.8964	0552.0	120.4	147.2	000.1374	0142.3	075.5	28.83
011.0	070.5432	0557.2	120.7	145.9	000.1374	0158.3	076.7	29.20
012.0	070.1909	0560.4	120.8	144.7	000.1374	0169.9	078.1	29.27
013.0	069.8394	0566.2	121.2	143.5	000.1374	0180.0	079.5	29.27
014.0	069.4889	0570.5	121.4	142.4	000.1374	0186.3	081.0	29.05
015.0	069.1392	0575.0	121.7	141.4	000.1374	0190.8	082.5	28.75
016.0	068.7904	0578.9	121.8	140.4	000.1374	0193.1	084.1	28.32
017.0	068.4425	0580.7	121.9	139.6	000.1374	0193.4	085.9	27.79
018.0	068.0955	0582.0	121.9	138.9	000.1374	0193.8	087.7	27.24
019.0	067.7494	0583.4	121.9	138.2	000.1374	0194.2	089.5	26.69



Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
020.0	067.4041	0584.7	122.0	137.5	000.1374	0194.9	091.4	26.15
021.0	065.8370	0585.7	121.7	137.0	000.1374	0195.6	093.4	25.57
022.0	064.2883	0586.7	121.5	136.6	000.1374	0196.4	095.4	25.00
023.0	062.7581	0587.5	121.2	136.2	000.1374	0197.1	097.4	24.43
024.0	061.2463	0588.6	121.0	135.9	000.1374	0197.8	099.5	23.87
025.0	059.7529	0589.6	120.7	135.6	000.1374	0198.4	101.5	23.32
026.0	058.2780	0591.4	120.5	135.3	000.1374	0199.1	103.6	22.79
027.0	056.8214	0593.3	120.3	135.0	000.1374	0199.8	105.6	22.27
028.0	055.3834	0595.2	120.1	134.8	000.1374	0200.3	107.7	21.77
029.0	053.9637	0598.8	120.0	134.5	000.1374	0200.9	109.8	21.30
030.0	052.5625	0602.9	119.9	134.3	000.1374	0201.6	111.8	20.85
031.0	052.8384	0605.2	120.1	133.9	000.1374	0202.8	113.8	20.46
032.0	053.1149	0606.2	120.2	133.7	000.1374	0204.1	115.8	20.07
033.0	053.3923	0606.1	120.3	133.4	000.1374	0205.4	117.9	19.67
034.0	053.6703	0605.0	120.3	133.3	000.1374	0206.4	119.9	19.27
035.0	053.9490	0604.1	120.3	133.1	000.1374	0207.3	122.0	18.87
036.0	054.2285	0603.3	120.3	133.0	000.1374	0208.0	124.1	18.47
037.0	054.5087	0602.4	120.3	132.8	000.1374	0208.6	126.2	18.07
038.0	054.7896	0601.5	120.4	132.7	000.1374	0209.0	128.3	17.67
039.0	055.0712	0600.5	120.4	132.7	000.1374	0209.4	130.3	17.27
040.0	055.3536	0599.4	120.4	132.6	000.1374	0209.6	132.4	16.87
041.0	057.8360	0598.0	120.8	132.4	000.1374	0210.6	134.5	16.49
042.0	060.3729	0596.4	121.3	132.2	000.1374	0211.3	136.6	16.10
043.0	062.9642	0594.5	121.7	132.0	000.1374	0211.9	138.8	15.71
044.0	065.6100	0592.1	122.1	131.9	000.1374	0212.4	140.9	15.31
045.0	068.3102	0589.8	122.5	131.8	000.1374	0212.8	143.0	14.92
046.0	071.0649	0588.4	122.9	131.6	000.1374	0213.2	145.2	14.53
047.0	073.8740	0587.6	123.3	131.5	000.1374	0213.5	147.4	14.15
048.0	076.7376	0587.4	123.8	131.4	000.1374	0213.9	149.6	13.77
049.0	079.6556	0588.0	124.3	131.3	000.1374	0214.2	151.8	13.40
050.0	082.6281	0587.9	124.8	131.3	000.1374	0214.4	154.0	13.02
051.0	084.2908	0587.9	125.1	131.3	000.1374	0214.3	156.2	12.64
052.0	085.9700	0588.2	125.3	131.4	000.1374	0214.2	158.4	12.26
053.0	087.6658	0589.5	125.7	131.4	000.1374	0214.1	160.6	11.87
054.0	089.3781	0591.5	126.1	131.4	000.1374	0214.0	162.8	11.48

# Channel-Six TV Protection Study

KRMATV CP 06- 2E Dom Int 100.000 kW 342 M HAAT VCY DA=D  
Denver CO 2363.0 M COR AMSL  
Lat= 39 40 25.0, Lng= 105 13 01.0  
Rocky Mountain Public Broadc BPET19990107KE 3  
Fac ID# 14040  
Dist.=182.82 km, Azi=173.6°, Rev Azi=353.8°

Direct line HAAT Grade B, 47 dBu= 110.96 km & Grade A= 59.58 km

Distance from reference to Grade B = 71.86 km

Cutoff Dist from Full Service or Class CA= 246

Maximum Co-located power= 3.1 kW

KRMATV Signal Contour at Reference location = 27.8 dBu

CH. 203, U/D ratio = 12.5 dB, Maximum FM signal = 59.5 dBu , 6 dB credit added

## TV/FM D to U values

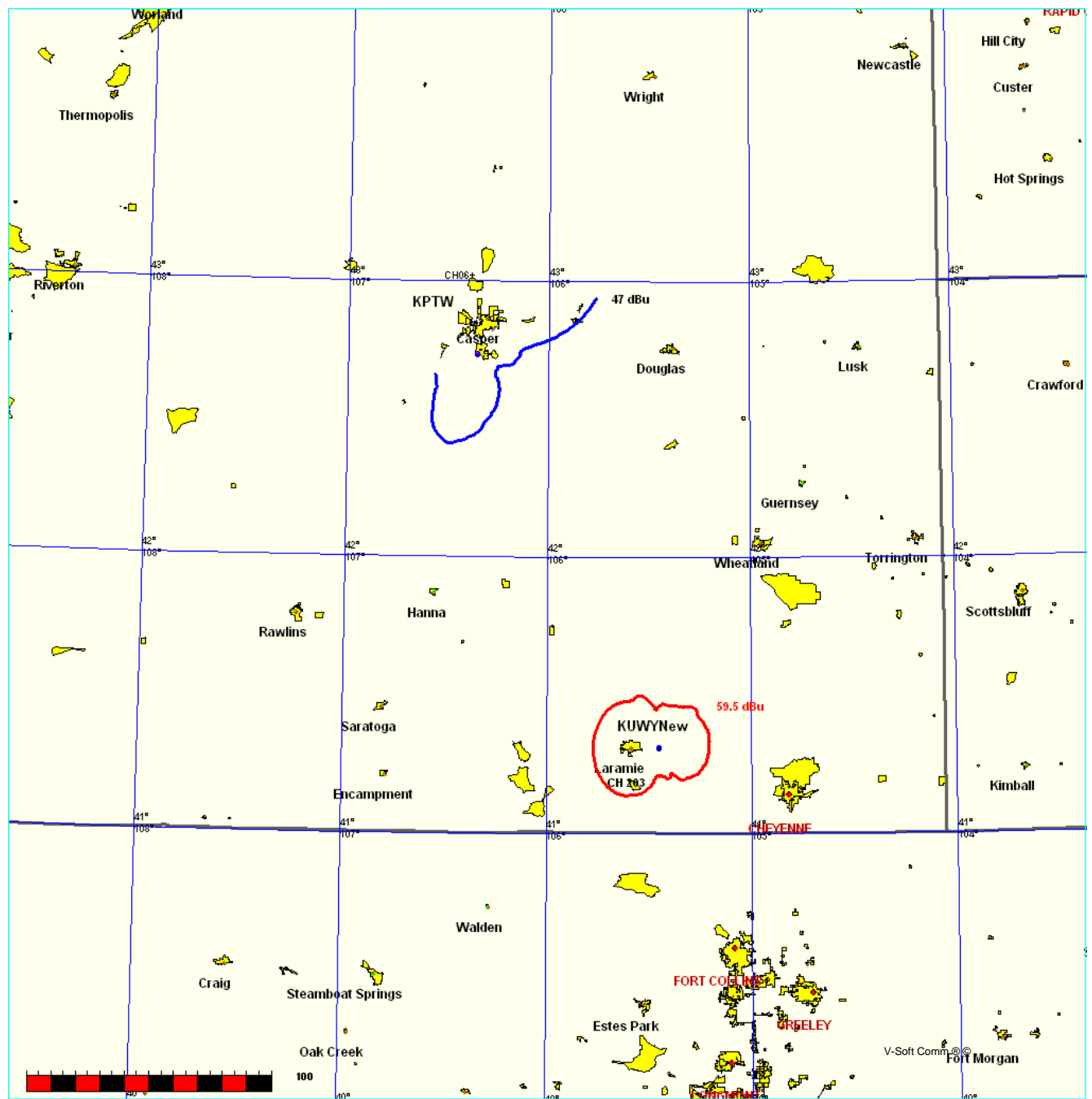
47.0	59.5	55.0	64.2	63.0	69.3	71.0	75.4	79.0	82.2	87.0	89.4
48.0	60.1	56.0	64.8	64.0	69.9	72.0	76.2	80.0	83.1	88.0	90.3
49.0	60.6	57.0	65.4	65.0	70.6	73.0	77.1	81.0	84.0	89.0	91.2
50.0	61.2	58.0	66.0	66.0	71.4	74.0	77.9	82.0	84.9	90.0	92.1
51.0	61.8	59.0	66.6	67.0	72.1	75.0	78.8	83.0	85.8	91.0	92.1
52.0	62.4	60.0	67.3	68.0	72.9	76.0	79.6	84.0	86.7	92.0	92.1
53.0	63.0	61.0	67.9	69.0	73.7	77.0	80.5	85.0	87.6	93.0	92.1
54.0	63.6	62.0	68.6	70.0	74.6	78.0	81.4	86.0	88.5	94.0	92.1

University Of Wyoming  
KUWYNew v. KPTW

FMCommander Single Allocation Study  
01-18-2008

KUWYNew CH 203 A  
0.137 kW 2703 M COR  
Intef. = 59.5 dBu

KPTW CH 06+ 2E BPET19960624KT 4  
0.331 kW, 2501 M COR DA  
Prot. = 47 dBu



01-18-2008 USGS 03 SEC Terrain Data

KPTW BPET19960624KT 4  
 Channel = 06+2E  
 Max ERP = 0.331 kW  
 RCAMSL = 2501 M  
 N. Lat. 42 44 26.0  
 W. Lng. 106 21 34.0  
 Protected  
 47 dBu

KUWYNew  
 Channel = 203A  
 Max ERP = 0.13735 kW  
 RCAMSL = 2703 M  
 N. Lat. 41 18 36.0  
 W. Lng. 105 27 17.0  
 Interfering  
 59.5 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
095.0	000.0043	0293.6	017.1	340.2	000.1374	0339.6	167.6	13.02
096.0	000.0039	0301.7	016.9	340.1	000.1374	0339.8	167.4	13.06
097.0	000.0035	0310.8	016.7	340.0	000.1374	0340.0	167.3	13.09
098.0	000.0032	0319.8	016.5	339.9	000.1374	0340.3	167.1	13.13
099.0	000.0028	0325.9	016.2	339.7	000.1374	0340.6	167.0	13.15
100.0	000.0025	0334.0	015.9	339.6	000.1374	0340.9	166.9	13.17
101.0	000.0024	0344.4	015.9	339.5	000.1374	0340.9	166.7	13.22
102.0	000.0023	0351.9	015.9	339.5	000.1374	0341.1	166.5	13.26
103.0	000.0021	0356.1	015.8	339.4	000.1374	0341.2	166.3	13.30
104.0	000.0020	0360.8	015.6	339.3	000.1374	0341.4	166.2	13.33
105.0	000.0019	0364.8	015.5	339.2	000.1374	0341.6	166.0	13.36
106.0	000.0018	0366.4	015.3	339.1	000.1374	0341.8	165.9	13.38
107.0	000.0017	0363.7	015.0	339.0	000.1374	0342.0	165.9	13.39
108.0	000.0016	0359.5	014.7	338.8	000.1374	0342.3	165.9	13.40
109.0	000.0015	0350.1	014.3	338.7	000.1374	0342.6	166.0	13.39
110.0	000.0014	0334.9	013.8	338.5	000.1374	0342.9	166.1	13.37
111.0	000.0014	0312.5	013.3	338.3	000.1374	0343.2	166.3	13.35
112.0	000.0014	0293.5	012.9	338.1	000.1374	0343.4	166.4	13.33
113.0	000.0014	0278.1	012.5	338.0	000.1374	0343.5	166.5	13.32
114.0	000.0014	0264.3	012.2	337.9	000.1374	0343.6	166.6	13.30
115.0	000.0014	0252.9	011.9	337.7	000.1374	0343.7	166.7	13.29
116.0	000.0013	0240.7	011.6	337.6	000.1374	0343.7	166.8	13.28
117.0	000.0013	0232.0	011.4	337.5	000.1374	0343.8	166.8	13.27
118.0	000.0013	0224.6	011.2	337.4	000.1374	0343.8	166.8	13.27
119.0	000.0013	0215.4	010.9	337.3	000.1374	0343.8	166.9	13.26
120.0	000.0013	0204.8	010.7	337.2	000.1374	0343.8	167.0	13.24
121.0	000.0014	0189.6	010.4	337.1	000.1374	0343.8	167.1	13.21
122.0	000.0014	0176.1	010.1	337.0	000.1374	0343.8	167.3	13.19
123.0	000.0015	0165.1	009.8	336.9	000.1374	0343.8	167.4	13.17
124.0	000.0015	0163.9	009.9	336.9	000.1374	0343.8	167.2	13.19
125.0	000.0016	0168.9	010.1	336.8	000.1374	0343.8	166.9	13.25
126.0	000.0016	0176.3	010.4	336.9	000.1374	0343.8	166.6	13.31
127.0	000.0017	0177.9	010.6	336.8	000.1374	0343.7	166.4	13.35
128.0	000.0017	0173.3	010.5	336.8	000.1374	0343.7	166.3	13.36
129.0	000.0018	0167.4	010.4	336.7	000.1374	0343.8	166.3	13.36

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
130.0	000.0019	0162.2	010.3	336.6	000.1374	0343.8	166.3	13.36
131.0	000.0021	0155.0	010.4	336.6	000.1374	0343.8	166.2	13.38
132.0	000.0024	0147.8	010.4	336.5	000.1374	0343.7	166.1	13.40
133.0	000.0026	0141.5	010.4	336.5	000.1374	0343.7	166.0	13.41
134.0	000.0029	0139.3	010.6	336.4	000.1374	0343.7	165.8	13.46
135.0	000.0032	0136.8	010.8	336.4	000.1374	0343.7	165.6	13.49
136.0	000.0036	0134.6	010.9	336.3	000.1374	0343.7	165.3	13.53
137.0	000.0039	0131.0	011.0	336.3	000.1374	0343.6	165.2	13.56
138.0	000.0043	0130.5	011.2	336.2	000.1374	0343.6	164.9	13.60
139.0	000.0046	0130.8	011.5	336.2	000.1374	0343.5	164.7	13.65
140.0	000.0050	0135.2	011.9	336.2	000.1374	0343.5	164.2	13.73
141.0	000.0057	0141.4	012.6	336.2	000.1374	0343.5	163.5	13.86
142.0	000.0065	0150.0	013.4	336.2	000.1374	0343.5	162.7	14.01
143.0	000.0073	0154.5	014.0	336.1	000.1374	0343.5	162.0	14.13
144.0	000.0081	0159.4	014.7	336.1	000.1374	0343.4	161.3	14.26
145.0	000.0090	0162.1	015.2	336.0	000.1374	0343.4	160.7	14.37
146.0	000.0100	0163.0	015.7	336.0	000.1374	0343.3	160.2	14.46
147.0	000.0109	0168.8	016.4	335.9	000.1374	0343.2	159.4	14.60
148.0	000.0120	0175.4	017.2	335.8	000.1374	0343.1	158.6	14.75
149.0	000.0131	0175.9	017.6	335.8	000.1374	0343.0	158.2	14.83
150.0	000.0142	0177.5	018.1	335.7	000.1374	0342.8	157.7	14.91
151.0	000.0149	0181.6	018.5	335.6	000.1374	0342.6	157.2	14.99
152.0	000.0156	0186.8	019.0	335.4	000.1374	0342.3	156.8	15.07
153.0	000.0163	0192.2	019.4	335.3	000.1374	0342.0	156.3	15.15
154.0	000.0171	0198.8	020.0	335.2	000.1374	0341.6	155.7	15.24
155.0	000.0178	0204.1	020.4	335.1	000.1374	0341.2	155.3	15.32
156.0	000.0186	0208.9	020.9	334.9	000.1374	0340.8	154.9	15.39
157.0	000.0194	0212.3	021.2	334.8	000.1374	0340.2	154.5	15.44
158.0	000.0202	0217.2	021.7	334.7	000.1374	0339.6	154.1	15.50
159.0	000.0210	0228.5	022.4	334.5	000.1374	0338.9	153.4	15.62
160.0	000.0219	0235.5	022.9	334.3	000.1374	0338.1	152.9	15.69
161.0	000.0223	0239.4	023.2	334.2	000.1374	0337.3	152.7	15.71
162.0	000.0227	0247.9	023.7	334.0	000.1374	0336.4	152.2	15.77
163.0	000.0231	0256.9	024.2	333.8	000.1374	0335.1	151.8	15.81
164.0	000.0235	0258.0	024.3	333.6	000.1374	0333.8	151.8	15.79
165.0	000.0239	0266.9	024.8	333.4	000.1374	0332.3	151.4	15.82
166.0	000.0243	0275.4	025.3	333.2	000.1374	0330.9	151.0	15.85
167.0	000.0247	0288.3	025.9	333.0	000.1374	0329.6	150.5	15.92
168.0	000.0251	0296.2	026.4	332.8	000.1374	0328.8	150.2	15.96
169.0	000.0255	0301.4	026.7	332.6	000.1374	0328.4	150.0	15.98
170.0	000.0260	0306.1	027.0	332.4	000.1374	0328.2	149.9	16.01
171.0	000.0262	0309.3	027.2	332.2	000.1374	0328.1	149.8	16.01
172.0	000.0264	0318.8	027.7	332.0	000.1374	0327.9	149.6	16.06
173.0	000.0267	0328.7	028.2	331.7	000.1374	0327.7	149.3	16.11
174.0	000.0269	0341.6	028.8	331.4	000.1374	0327.5	148.9	16.18
175.0	000.0272	0357.2	029.6	331.1	000.1374	0327.7	148.4	16.28
176.0	000.0274	0373.4	030.3	330.8	000.1374	0328.2	148.0	16.37
177.0	000.0277	0391.1	031.0	330.5	000.1374	0328.8	147.6	16.47
178.0	000.0279	0404.4	031.6	330.3	000.1374	0329.7	147.3	16.54
179.0	000.0282	0410.4	031.9	330.0	000.1374	0330.6	147.4	16.56
180.0	000.0284	0420.6	032.3	329.7	000.1374	0331.8	147.2	16.61

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
181.0	000.0282	0434.1	032.8	329.4	000.1374	0333.3	147.2	16.67
182.0	000.0279	0446.2	033.2	329.2	000.1374	0334.9	147.1	16.72
183.0	000.0277	0453.3	033.4	328.9	000.1374	0336.4	147.3	16.73
184.0	000.0274	0462.9	033.7	328.7	000.1374	0338.1	147.4	16.76
185.0	000.0272	0473.5	034.0	328.4	000.1374	0339.8	147.4	16.79
186.0	000.0269	0486.1	034.5	328.1	000.1374	0341.6	147.5	16.83
187.0	000.0267	0499.9	035.0	327.8	000.1374	0343.6	147.5	16.89
188.0	000.0264	0509.4	035.3	327.6	000.1374	0345.3	147.6	16.90
189.0	000.0262	0519.6	035.6	327.3	000.1374	0347.0	147.8	16.92
190.0	000.0260	0529.4	036.0	327.0	000.1374	0348.6	148.0	16.92
191.0	000.0255	0538.7	036.2	326.8	000.1374	0349.9	148.2	16.91
192.0	000.0251	0549.7	036.5	326.5	000.1374	0351.3	148.5	16.90
193.0	000.0247	0562.6	036.9	326.3	000.1374	0352.8	148.7	16.90
194.0	000.0243	0574.8	037.2	326.0	000.1374	0354.2	149.0	16.88
195.0	000.0239	0588.8	037.5	325.8	000.1374	0355.7	149.3	16.86
196.0	000.0235	0606.5	037.9	325.5	000.1374	0357.3	149.5	16.86
197.0	000.0231	0618.1	038.1	325.3	000.1374	0358.6	149.9	16.82
198.0	000.0227	0624.7	038.2	325.1	000.1374	0359.5	150.4	16.75
199.0	000.0223	0629.6	038.2	324.9	000.1374	0360.4	150.9	16.67
200.0	000.0219	0632.8	038.1	324.8	000.1374	0361.1	151.5	16.58
201.0	000.0210	0636.1	037.9	324.8	000.1374	0361.5	152.2	16.46
202.0	000.0202	0637.0	037.6	324.7	000.1374	0361.7	152.9	16.32
203.0	000.0194	0636.0	037.2	324.7	000.1374	0361.7	153.7	16.18
204.0	000.0186	0635.6	036.8	324.7	000.1374	0361.7	154.4	16.04
205.0	000.0178	0637.0	036.4	324.7	000.1374	0361.7	155.2	15.90
206.0	000.0171	0640.1	036.2	324.7	000.1374	0361.8	155.9	15.77
207.0	000.0163	0643.8	035.9	324.7	000.1374	0361.9	156.5	15.65
208.0	000.0156	0648.3	035.6	324.7	000.1374	0362.0	157.2	15.52
209.0	000.0149	0654.4	035.4	324.6	000.1374	0362.2	157.9	15.40
210.0	000.0142	0660.0	035.1	324.6	000.1374	0362.2	158.5	15.28
211.0	000.0131	0663.9	034.5	324.7	000.1374	0361.5	159.3	15.11
212.0	000.0120	0668.4	033.9	324.9	000.1374	0360.8	160.1	14.94
213.0	000.0109	0671.5	033.2	325.0	000.1374	0359.9	160.9	14.76
214.0	000.0100	0675.7	032.5	325.2	000.1374	0359.0	161.7	14.59
215.0	000.0090	0679.1	031.7	325.4	000.1374	0357.9	162.5	14.42

# Channel-Six TV Protection Study

KPTW CP 06+ 2E Dom Int 0.331 kW 536 M HAAT VHN DA=D  
Casper WY 2501.0 M COR AMSL  
Lat= 42 44 26.0, Lng= 106 21 34.0  
Central Wyoming College BPET19960624KT 4  
Fac ID# 82575  
Dist.=175.68 km, Azi=335.1°, Rev Azi=154.5°

Direct line HAAT Grade B, 47 dBu= 20.22 km & Grade A= 5.84 km

Distance from reference to Grade B = 155.46 km

Cutoff Dist from Full Service or Class CA= 246

Maximum Co-located power= 3.1 kW

KPTW Signal Contour at Reference location = -11.0 dBu

CH. 203, U/D ratio = 12.5 dB, Maximum FM signal = 59.5 dBu , 6 dB credit added

## TV/FM D to U values

47.0	59.5	55.0	64.2	63.0	69.3	71.0	75.4	79.0	82.2	87.0	89.4
48.0	60.1	56.0	64.8	64.0	69.9	72.0	76.2	80.0	83.1	88.0	90.3
49.0	60.6	57.0	65.4	65.0	70.6	73.0	77.1	81.0	84.0	89.0	91.2
50.0	61.2	58.0	66.0	66.0	71.4	74.0	77.9	82.0	84.9	90.0	92.1
51.0	61.8	59.0	66.6	67.0	72.1	75.0	78.8	83.0	85.8	91.0	92.1
52.0	62.4	60.0	67.3	68.0	72.9	76.0	79.6	84.0	86.7	92.0	92.1
53.0	63.0	61.0	67.9	69.0	73.7	77.0	80.5	85.0	87.6	93.0	92.1
54.0	63.6	62.0	68.6	70.0	74.6	78.0	81.4	86.0	88.5	94.0	92.1