Brattleboro 205 v. WRGB - TV6 Large Scale

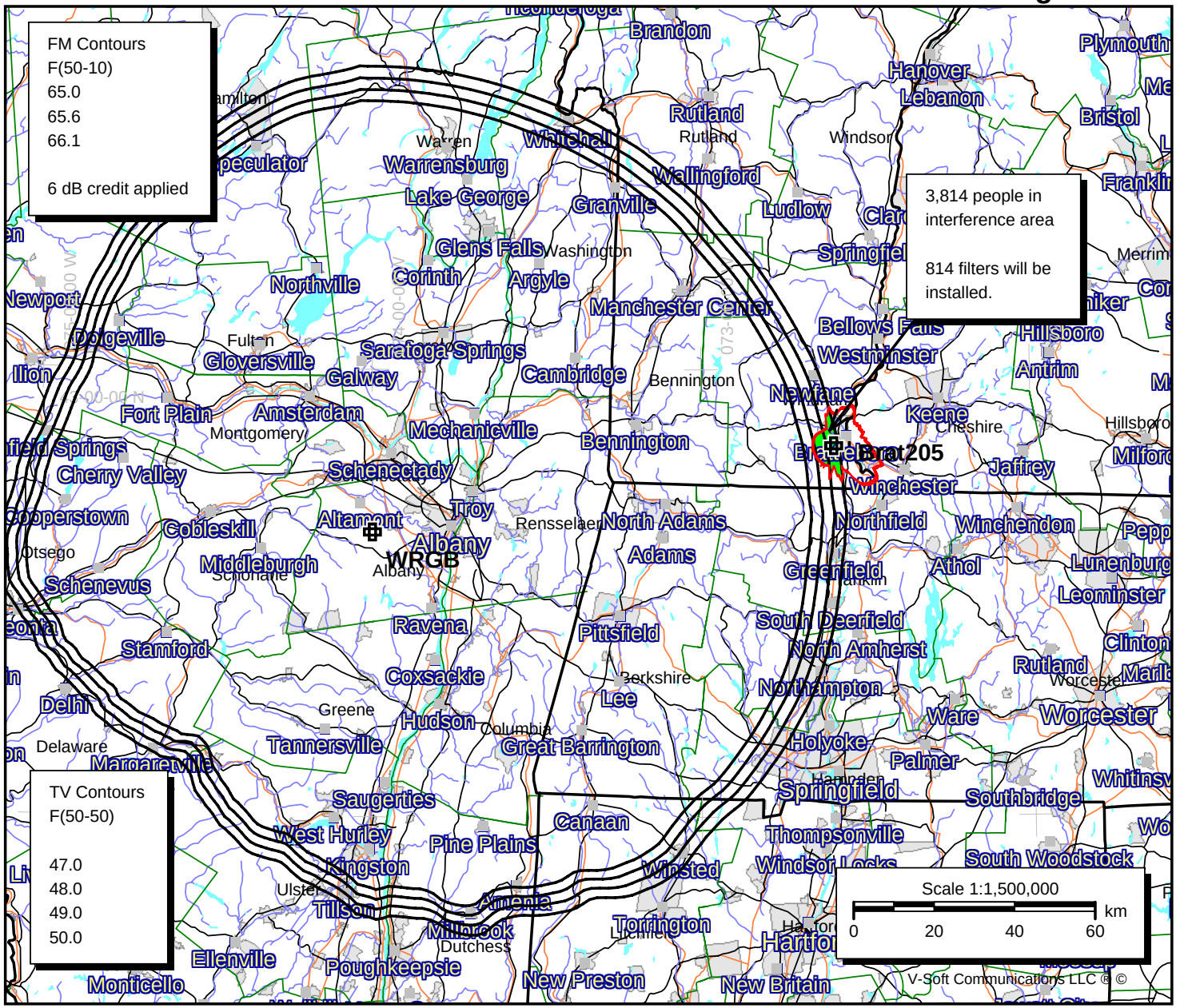
Brat205

Latitude: 42-49-44 N
Longitude: 072-35-52 W
Study ERP: 0.25 kW
0.1 kW H +6.0 kW V/40
Channel: 205
Frequency: 88.9 MHz
AMSL Height: 305.0 m
HAAT: 33.2 m
Horiz. Pattern: Directional

WRGB
BLCT2492
Latitude: 42-38-12 N
Longitude: 073-59-45 W
ERP: 93.30 kW
Channel: 06Z
Frequency: 85.0 MHz
AMSL Height: 555.0 m
HAAT: 311.0 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0

10/14/2007

Doug Vernier
721 West 1st Street, Suite A
Cedar Falls, Iowa 50613
(319) 266-8402
Telecommunications Consultants



Brattleboro 205 v. WRGB - TV6 Small Scale

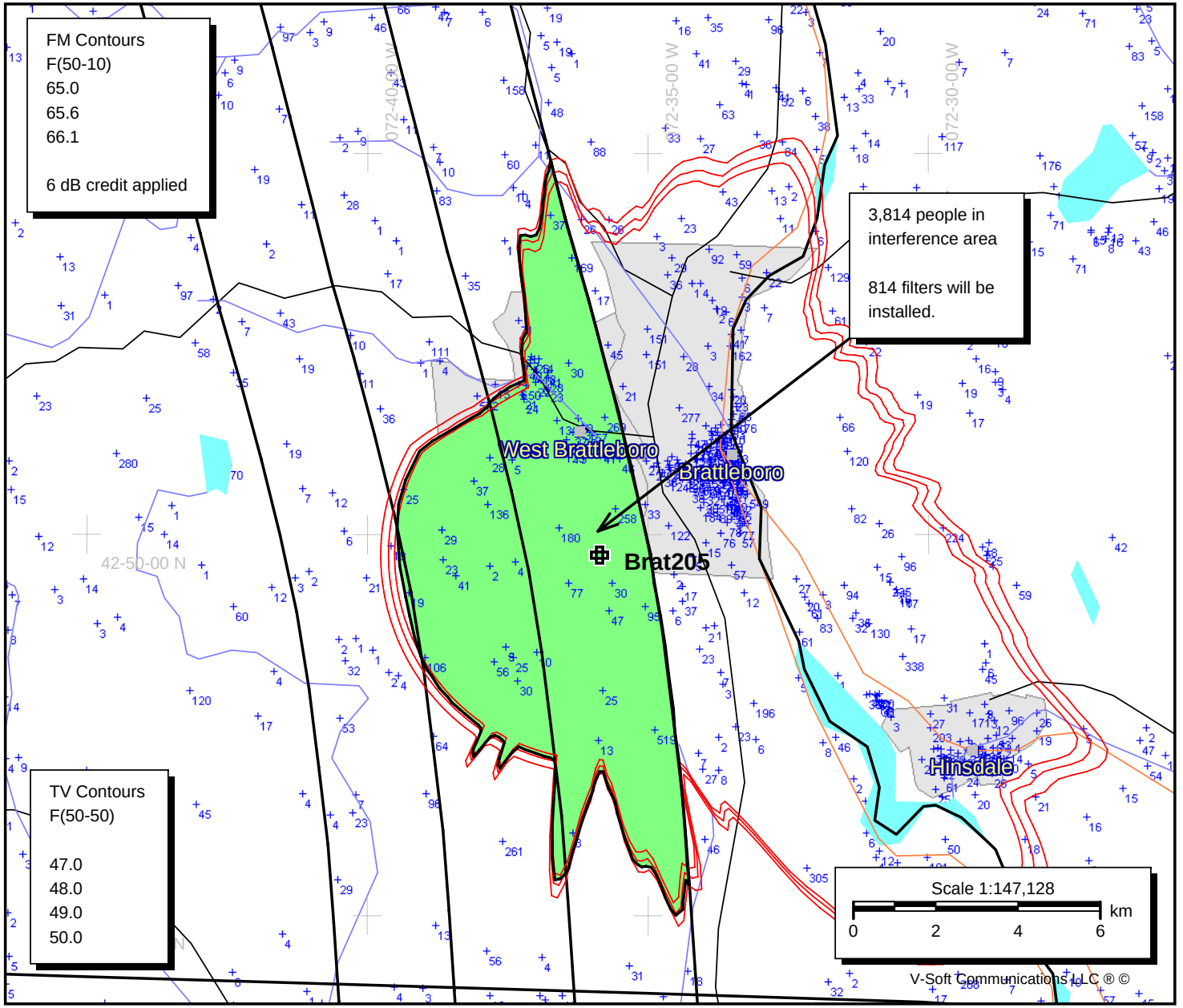
Brat205

Latitude: 42-49-44 N
Longitude: 072-35-52 W
Study ERP: 0.25 kW
0.1 kW H +6.0 kW V/40
Channel: 205
Frequency: 88.9 MHz
AMSL Height: 305.0 m
HAAT: 33.2 m
Horiz. Pattern: Directional

WRGB
BLCT2492
Latitude: 42-38-12 N
Longitude: 073-59-45 W
ERP: 93.30 kW
Channel: 06Z
Frequency: 85.0 MHz
AMSL Height: 555.0 m
HAAT: 311.0 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0

10/14/2007

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N. Lat. = 424944.0 W. Lng. = 723552.0
HAAT and Distance to Contour - FCC Method - USGS 03 SEC
Brattleboro 205 - Distance to FM Interference Contours for TV 6 Protection

Azi.	AV EL	HAAT	ERP kW	dBk	Field	65-F1	65.6-F1	66-F1
000	226.8	78.2	0.2266	-6.45	0.952	8.36	8.05	7.86
010	198.3	106.7	0.1858	-7.31	0.862	9.35	9.03	8.82
020	138.9	166.1	0.1173	-9.31	0.685	10.45	10.11	9.88
030	125.5	179.5	0.1073	-9.70	0.655	10.65	10.30	10.06
040	187.9	117.1	0.0924	-10.34	0.608	8.21	7.92	7.75
050	217.1	87.9	0.1452	-8.38	0.762	7.92	7.64	7.47
060	232.6	72.4	0.2299	-6.38	0.959	8.06	7.77	7.58
070	239.2	65.8	0.2500	-6.02	1.000	7.84	7.56	7.38
080	230.8	74.2	0.2500	-6.02	1.000	8.36	8.04	7.85
090	216.7	88.3	0.2500	-6.02	1.000	9.15	8.84	8.63
100	189.5	115.5	0.2500	-6.02	1.000	10.43	10.09	9.87
110	128.5	176.5	0.2500	-6.02	1.000	12.94	12.52	12.25
120	153.9	151.1	0.2500	-6.02	1.000	11.92	11.53	11.28
130	100.0	205.0	0.2500	-6.02	1.000	13.88	13.42	13.13
140	127.6	177.4	0.2500	-6.02	1.000	12.98	12.55	12.28
150	223.3	81.7	0.2500	-6.02	1.000	8.79	8.47	8.27
160	265.3	39.7	0.2500	-6.02	1.000	6.06	5.87	5.74
170	236.5	68.5	0.2500	-6.02	1.000	8.00	7.71	7.52
180	275.6	29.4	0.2500	-6.02	1.000	5.31	5.12	5.00
190	253.4	51.6	0.2500	-6.02	1.000	6.94	6.71	6.56
200	305.3	-0.3	0.2500	-6.02	1.000	5.31	5.12	5.00
210	278.4	26.6	0.2500	-6.02	1.000	5.31	5.12	5.00
220	312.2	-7.2	0.2500	-6.02	1.000	5.31	5.12	5.00
230	352.1	-47.1	0.2500	-6.02	1.000	5.31	5.12	5.00
240	396.9	-91.9	0.2500	-6.02	1.000	5.31	5.12	5.00
250	406.3	-101.3	0.2500	-6.02	1.000	5.31	5.12	5.00
260	440.5	-135.5	0.2500	-6.02	1.000	5.31	5.12	5.00
270	451.7	-146.7	0.2500	-6.02	1.000	5.31	5.12	5.00
280	487.0	-182.0	0.2500	-6.02	1.000	5.31	5.12	5.00
290	467.7	-162.7	0.2500	-6.02	1.000	5.31	5.12	5.00
300	406.9	-101.9	0.2500	-6.02	1.000	5.31	5.12	5.00
310	374.8	-69.8	0.1936	-7.13	0.880	4.97	4.79	4.67
320	356.1	-51.1	0.1600	-7.96	0.800	4.72	4.55	4.44
330	302.9	2.1	0.1560	-8.07	0.790	4.69	4.52	4.42
340	262.9	42.1	0.1600	-7.96	0.800	5.61	5.43	5.31
350	217.1	87.9	0.1772	-7.51	0.842	8.35	8.04	7.86

Ave El= 271.84 M HAAT= 33.16 M AMSL= 305

N. Lat. = 423812.0 W. Lng. = 735945.0
HAAT and Distance to Contour - FCC Method - USGS 03 SEC
WRGB , Freedom Broadcasting Of New , BLCT2492

Azi.	AV EL	HAAT	ERP kW	dBk	Field	47-F5	48-F5	49-F5	50-F5
000	98.0	457.0	93.3000	19.70	1.000	115.59	112.64	109.77	107.01
010	99.0	456.0	93.3000	19.70	1.000	115.49	112.54	109.68	106.92
020	102.1	452.9	93.3000	19.70	1.000	115.22	112.27	109.41	106.66
030	99.5	455.5	93.3000	19.70	1.000	115.45	112.50	109.64	106.88
040	95.1	459.9	93.3000	19.70	1.000	115.85	112.89	110.02	107.25
050	99.5	455.5	93.3000	19.70	1.000	115.45	112.50	109.64	106.88
060	90.8	464.2	93.3000	19.70	1.000	116.24	113.28	110.40	107.62
070	76.8	478.2	93.3000	19.70	1.000	117.53	114.56	111.66	108.85
080	75.4	479.6	93.3000	19.70	1.000	117.66	114.69	111.79	108.97
090	78.8	476.2	93.3000	19.70	1.000	117.35	114.37	111.47	108.66
100	83.2	471.8	93.3000	19.70	1.000	116.95	113.98	111.08	108.28
110	87.3	467.7	93.3000	19.70	1.000	116.57	113.60	110.71	107.92
120	105.7	449.3	93.3000	19.70	1.000	114.89	111.95	109.11	106.36
130	133.8	421.2	93.3000	19.70	1.000	112.37	109.48	106.69	103.99
140	127.9	427.1	93.3000	19.70	1.000	112.90	110.00	107.20	104.49
150	209.7	345.3	93.3000	19.70	1.000	106.11	103.40	100.80	98.30
160	268.6	286.4	93.3000	19.70	1.000	101.58	98.99	96.50	94.08
170	301.4	253.6	93.3000	19.70	1.000	98.53	95.97	93.48	91.04
180	331.5	223.5	93.3000	19.70	1.000	95.63	93.13	90.67	88.25
190	400.4	154.6	93.3000	19.70	1.000	88.50	86.14	83.80	81.45
200	425.1	129.9	93.3000	19.70	1.000	85.22	82.87	80.50	78.12
210	455.5	99.5	93.3000	19.70	1.000	79.94	77.46	74.98	72.51
220	479.1	75.9	93.3000	19.70	1.000	74.26	71.64	69.08	66.59
230	457.9	97.1	93.3000	19.70	1.000	79.44	76.95	74.45	71.97
240	440.9	114.1	93.3000	19.70	1.000	82.73	80.34	77.92	75.50
250	406.9	148.1	93.3000	19.70	1.000	87.70	85.35	83.00	80.65
260	370.4	184.6	93.3000	19.70	1.000	91.80	89.38	86.98	84.61
270	362.4	192.6	93.3000	19.70	1.000	92.61	90.17	87.76	85.37
280	391.2	163.8	93.3000	19.70	1.000	89.57	87.20	84.85	82.50
290	405.8	149.2	93.3000	19.70	1.000	87.83	85.48	83.13	80.79
300	404.4	150.6	93.3000	19.70	1.000	88.01	85.66	83.31	80.97
310	359.4	195.6	93.3000	19.70	1.000	92.91	90.47	88.05	85.66
320	306.3	248.7	93.3000	19.70	1.000	98.05	95.50	93.02	90.57
330	255.2	299.8	93.3000	19.70	1.000	102.74	100.13	97.62	95.21
340	168.7	386.3	93.3000	19.70	1.000	109.31	106.48	103.75	101.14
350	118.3	436.7	93.3000	19.70	1.000	113.76	110.84	108.02	105.30

Ave El= 243.66 M HAAT= 311.34 M AMSL= 555 M

Channel-Six TV Protection Study

WRGB LI 06Z 1C Dom Int 93.300 kW 311 M HAAT VHN
Schenectady NY 555.0 M COR AMSL
Lat= 42 38 12.0, Lng= 73 59 45.0
Freedom Broadcasting Of New BLCT2492
Fac ID# 73942
Dist.=116.47 km, Azi=259.9°, Rev Azi=78.9°

Direct line HAAT Grade B, 47 dBu= 117.6 km & Grade A= 64.84 km

Distance from reference to Grade B = -1.13 km
Cutoff Dist from Full Service or Class CA= 225
Maximum Co-located power= 8.3 kW
WRGB Signal Contour at Reference location = 47.4 dBu
CH. 205, U/D ratio = 17.8 dB, Maximum FM signal = 65.2 dBu , 6 dB credit added

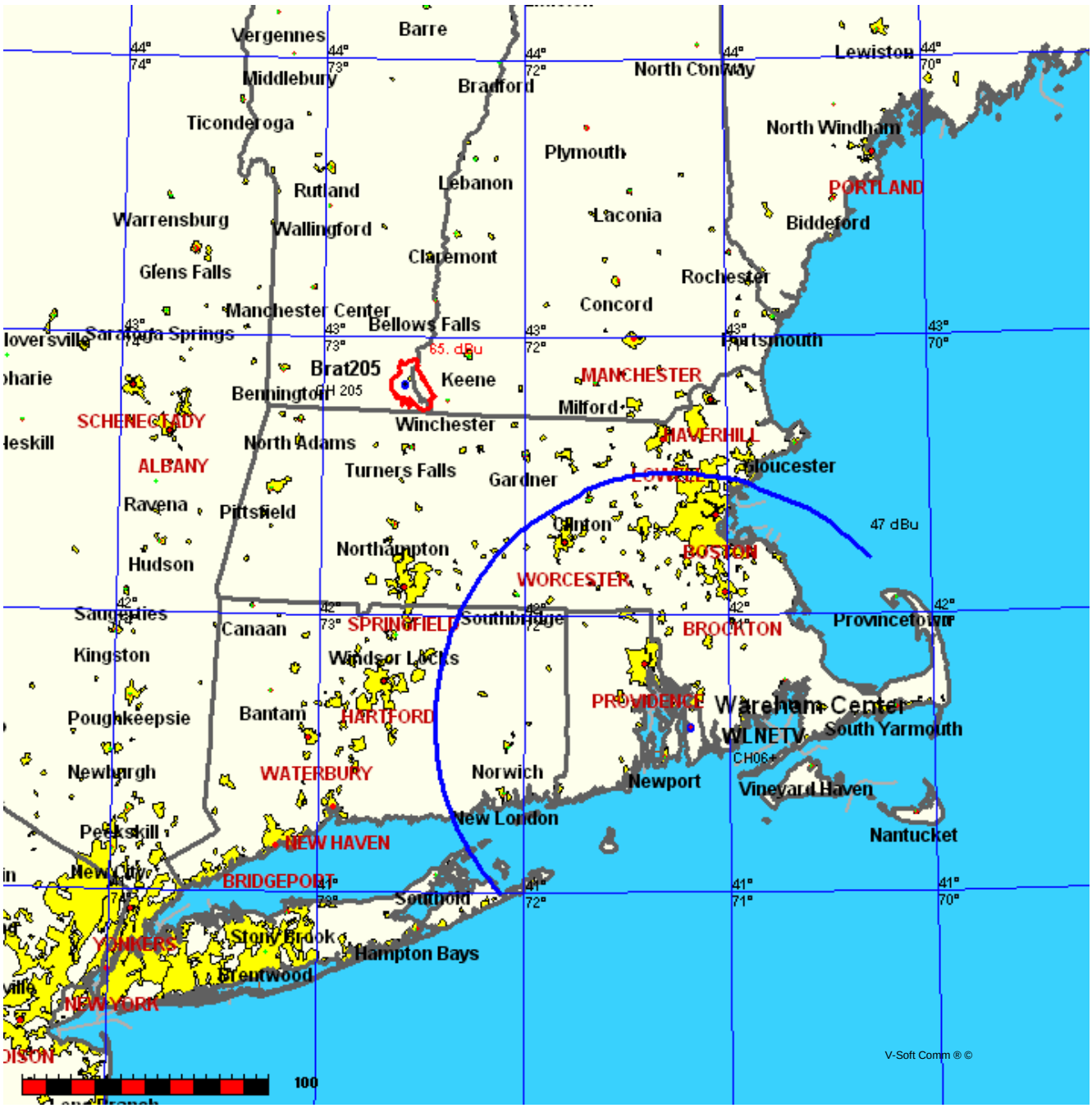
TV/FM D to U values

47.0	65.0	55.0	69.5	63.0	74.1	71.0	79.6	79.0	85.9	87.0	92.3
48.0	65.6	56.0	70.0	64.0	74.8	72.0	80.4	80.0	86.7	88.0	93.1
49.0	66.1	57.0	70.6	65.0	75.4	73.0	81.1	81.0	87.4	89.0	93.9
50.0	66.7	58.0	71.2	66.0	76.1	74.0	81.9	82.0	88.2	90.0	94.8
51.0	67.3	59.0	71.8	67.0	76.7	75.0	82.7	83.0	89.0	91.0	94.8
52.0	67.8	60.0	72.3	68.0	77.4	76.0	83.5	84.0	89.8	92.0	94.8
53.0	68.4	61.0	72.9	69.0	78.1	77.0	84.3	85.0	90.6	93.0	94.8
54.0	68.9	62.0	73.5	70.0	78.9	78.0	85.1	86.0	91.5	94.0	94.8

Vermont Public Radio
Brattleboro 205 v WLNE-TV

FMCommander Single Allocation Study
10-14-2007

Brat205 CH 205 A	WLNETV CH 06+ 1C BLCT19920604KF
0.25 kW 305 M COR DA	100.0 kW, 308 M COR
Intef. = 65.0 dBu	Prot. = 47 dBu



10-14-2007 USGS 03 SEC Terrain Data

WLNETV BLCT19920604KF
Channel = 06+1C
Max ERP = 100 kW
RCAMSL = 308 M
N. Lat. 41 35 48.0
W. Lng. 71 11 24.0
Protected
47 dBu

Brat205
Channel = 205A
Max ERP = 0.25 kW
RCAMSL = 305 M
N. Lat. 42 49 44.0
W. Lng. 72 35 52.0
Interfering
65 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
260.0	100.0000	0296.0	103.2	174.6	000.2500	0055.0	155.5	10.82
261.0	100.0000	0296.2	103.2	174.6	000.2500	0055.0	153.7	11.14
262.0	100.0000	0296.4	103.3	174.6	000.2500	0054.7	151.9	11.45
263.0	100.0000	0296.6	103.3	174.7	000.2500	0054.4	150.1	11.77
264.0	100.0000	0296.6	103.3	174.7	000.2500	0054.3	148.3	12.09
265.0	100.0000	0296.7	103.3	174.7	000.2500	0054.3	146.5	12.41
266.0	100.0000	0296.8	103.3	174.7	000.2500	0054.2	144.7	12.74
267.0	100.0000	0296.8	103.3	174.7	000.2500	0054.3	142.9	13.08
268.0	100.0000	0296.8	103.3	174.7	000.2500	0054.5	141.1	13.42
269.0	100.0000	0296.9	103.3	174.6	000.2500	0054.7	139.3	13.76
270.0	100.0000	0297.3	103.3	174.6	000.2500	0055.0	137.5	14.11
271.0	100.0000	0297.6	103.4	174.5	000.2500	0055.4	135.7	14.46
272.0	100.0000	0297.8	103.4	174.4	000.2500	0055.9	133.9	14.82
273.0	100.0000	0298.2	103.4	174.3	000.2500	0056.5	132.1	15.18
274.0	100.0000	0298.8	103.5	174.2	000.2500	0057.1	130.3	15.54
275.0	100.0000	0299.0	103.5	174.1	000.2500	0058.0	128.5	15.90
276.0	100.0000	0299.1	103.5	174.0	000.2500	0059.2	126.7	16.28
277.0	100.0000	0299.3	103.5	173.8	000.2500	0060.6	125.0	16.65
278.0	100.0000	0299.3	103.5	173.6	000.2500	0062.0	123.2	17.02
279.0	100.0000	0299.2	103.5	173.4	000.2500	0063.1	121.5	17.37
280.0	100.0000	0299.3	103.5	173.2	000.2500	0063.9	119.7	17.71
281.0	100.0000	0299.5	103.5	172.9	000.2500	0064.4	118.0	18.04
282.0	100.0000	0300.0	103.6	172.7	000.2500	0065.4	116.3	18.38
283.0	100.0000	0300.8	103.6	172.4	000.2500	0066.0	114.6	18.71
284.0	100.0000	0301.2	103.7	172.1	000.2500	0065.1	112.9	18.98
285.0	100.0000	0301.3	103.7	171.7	000.2500	0063.4	111.2	19.23
286.0	100.0000	0301.1	103.7	171.4	000.2500	0063.2	109.5	19.52
287.0	100.0000	0300.6	103.6	170.9	000.2500	0064.2	107.9	19.86
288.0	100.0000	0301.2	103.7	170.5	000.2500	0065.0	106.3	20.19
289.0	100.0000	0302.8	103.8	170.1	000.2500	0067.1	104.6	20.58
290.0	100.0000	0303.4	103.8	169.7	000.2500	0071.8	103.0	21.07
291.0	100.0000	0303.6	103.9	169.2	000.2500	0076.5	101.4	21.57
292.0	100.0000	0303.7	103.9	168.6	000.2500	0083.4	099.9	22.16
293.0	100.0000	0303.8	103.9	168.1	000.2500	0089.2	098.4	22.73
294.0	100.0000	0303.6	103.9	167.4	000.2500	0089.0	096.9	23.06

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
295.0	100.0000	0304.0	103.9	166.8	000.2500	0086.0	095.5	23.28
296.0	100.0000	0304.5	103.9	166.1	000.2500	0080.4	094.0	23.39
297.0	100.0000	0304.8	104.0	165.4	000.2500	0075.4	092.6	23.51
298.0	100.0000	0304.9	104.0	164.7	000.2500	0073.1	091.3	23.74
299.0	100.0000	0305.1	104.0	163.9	000.2500	0077.0	090.0	24.25
300.0	100.0000	0305.2	104.0	163.1	000.2500	0076.8	088.7	24.57
301.0	100.0000	0305.2	104.0	162.2	000.2500	0069.5	087.5	24.53
302.0	100.0000	0305.2	104.0	161.3	000.2500	0054.3	086.3	24.08
303.0	100.0000	0305.3	104.0	160.4	000.2500	0042.6	085.2	23.72
304.0	100.0000	0305.5	104.0	159.4	000.2500	0035.9	084.1	23.57
305.0	100.0000	0306.2	104.1	158.4	000.2500	0036.6	083.0	23.85
306.0	100.0000	0306.7	104.1	157.3	000.2500	0043.3	082.0	24.48
307.0	100.0000	0307.1	104.1	156.2	000.2500	0052.3	081.0	25.25
308.0	100.0000	0307.2	104.2	155.1	000.2500	0057.9	080.2	25.78
309.0	100.0000	0307.1	104.1	153.9	000.2500	0054.7	079.4	25.79
310.0	100.0000	0306.3	104.1	152.7	000.2500	0055.3	078.7	25.99
311.0	100.0000	0305.0	104.0	151.5	000.2500	0064.8	078.1	26.69
312.0	100.0000	0304.7	103.9	150.2	000.2500	0078.8	077.5	27.62
313.0	100.0000	0305.0	104.0	148.9	000.2500	0096.7	077.0	28.74
314.0	100.0000	0305.7	104.0	147.6	000.2500	0111.6	076.4	29.65
315.0	100.0000	0306.3	104.1	146.3	000.2500	0130.3	076.0	30.71
316.0	100.0000	0307.1	104.1	145.0	000.2500	0149.5	075.6	31.75
317.0	100.0000	0307.2	104.2	143.6	000.2500	0159.6	075.3	32.31
318.0	100.0000	0307.1	104.1	142.2	000.2500	0166.7	075.2	32.69
319.0	100.0000	0306.7	104.1	140.9	000.2500	0173.2	075.1	33.00
320.0	100.0000	0305.8	104.0	139.5	000.2500	0179.7	075.1	33.27
321.0	100.0000	0304.2	103.9	138.1	000.2500	0185.4	075.3	33.45
322.0	100.0000	0302.4	103.8	136.7	000.2500	0191.0	075.6	33.59
323.0	100.0000	0300.4	103.6	135.4	000.2500	0192.0	075.9	33.52
324.0	100.0000	0298.5	103.4	134.0	000.2500	0195.4	076.4	33.52
325.0	100.0000	0296.3	103.2	132.7	000.2500	0200.3	076.9	33.55
326.0	100.0000	0294.5	103.1	131.5	000.2500	0203.0	077.4	33.47
327.0	100.0000	0293.4	103.0	130.2	000.2500	0204.9	078.0	33.36
328.0	100.0000	0292.9	102.9	129.0	000.2500	0203.8	078.6	33.13
329.0	100.0000	0292.8	102.9	127.7	000.2500	0200.7	079.2	32.81
330.0	100.0000	0292.2	102.9	126.5	000.2500	0195.4	079.9	32.37
331.0	100.0000	0291.1	102.8	125.4	000.2500	0189.7	080.7	31.87
332.0	100.0000	0289.9	102.7	124.3	000.2500	0181.7	081.6	31.26
333.0	100.0000	0289.7	102.7	123.2	000.2500	0172.5	082.5	30.61
334.0	100.0000	0291.2	102.8	122.1	000.2500	0163.4	083.3	29.98
335.0	100.0000	0295.9	103.2	120.9	000.2500	0154.0	083.9	29.39
336.0	100.0000	0301.7	103.7	119.7	000.2500	0151.6	084.5	29.10
337.0	100.0000	0303.4	103.8	118.7	000.2500	0155.9	085.5	28.99
338.0	100.0000	0302.9	103.8	117.7	000.2500	0159.7	086.7	28.79
339.0	100.0000	0302.3	103.8	116.8	000.2500	0160.4	087.9	28.46
340.0	100.0000	0301.5	103.7	116.0	000.2500	0162.5	089.2	28.16
341.0	100.0000	0300.6	103.6	115.2	000.2500	0167.3	090.5	27.96
342.0	100.0000	0299.5	103.5	114.5	000.2500	0172.5	091.9	27.76
343.0	100.0000	0298.3	103.4	113.8	000.2500	0178.2	093.3	27.56
344.0	100.0000	0296.8	103.3	113.1	000.2500	0182.6	094.7	27.30
345.0	100.0000	0296.0	103.2	112.4	000.2500	0185.2	096.2	26.97

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
346.0	100.0000	0295.7	103.2	111.8	000.2500	0185.8	097.6	26.58
347.0	100.0000	0295.1	103.1	111.2	000.2500	0185.1	099.1	26.14
348.0	100.0000	0294.0	103.0	110.7	000.2500	0182.8	100.7	25.63
349.0	100.0000	0292.5	102.9	110.2	000.2500	0178.4	102.3	25.07
350.0	100.0000	0291.4	102.8	109.7	000.2500	0173.9	103.9	24.52
351.0	100.0000	0290.5	102.7	109.3	000.2500	0169.6	105.5	23.99
352.0	100.0000	0289.4	102.6	108.9	000.2500	0165.5	107.1	23.47
353.0	100.0000	0288.1	102.5	108.5	000.2500	0161.6	108.7	22.98
354.0	100.0000	0286.6	102.4	108.1	000.2500	0158.5	110.4	22.52
355.0	100.0000	0284.5	102.2	107.8	000.2500	0156.2	112.1	22.10
356.0	100.0000	0282.9	102.1	107.6	000.2500	0154.1	113.8	21.70
357.0	100.0000	0281.4	101.9	107.3	000.2500	0152.1	115.5	21.30
358.0	100.0000	0280.3	101.8	107.0	000.2500	0150.1	117.2	20.92
359.0	100.0000	0279.7	101.8	106.8	000.2500	0147.8	118.9	20.53
000.0	100.0000	0277.6	101.6	106.6	000.2500	0146.3	120.7	20.15
001.0	100.0000	0275.4	101.4	106.4	000.2500	0144.9	122.4	19.79
002.0	100.0000	0272.2	101.1	106.3	000.2500	0144.1	124.2	19.44
003.0	100.0000	0269.6	100.8	106.2	000.2500	0143.2	126.0	19.08
004.0	100.0000	0268.7	100.8	106.1	000.2500	0141.7	127.7	18.71
005.0	100.0000	0268.8	100.8	105.9	000.2500	0140.2	129.5	18.35
006.0	100.0000	0269.2	100.8	105.8	000.2500	0138.9	131.2	17.98
007.0	100.0000	0269.4	100.8	105.6	000.2500	0138.0	132.9	17.61
008.0	100.0000	0268.9	100.8	105.5	000.2500	0137.4	134.7	17.25
009.0	100.0000	0268.8	100.8	105.4	000.2500	0136.8	136.4	16.89
010.0	100.0000	0269.4	100.8	105.3	000.2500	0136.1	138.1	16.53
011.0	100.0000	0269.7	100.9	105.2	000.2500	0135.6	139.9	16.18
012.0	100.0000	0268.1	100.7	105.2	000.2500	0135.6	141.7	15.84
013.0	100.0000	0265.0	100.4	105.3	000.2500	0136.0	143.4	15.51
014.0	100.0000	0261.7	100.1	105.4	000.2500	0136.6	145.2	15.21
015.0	100.0000	0259.1	099.8	105.4	000.2500	0137.0	147.0	14.91
016.0	100.0000	0256.4	099.6	105.5	000.2500	0137.5	148.7	14.63
017.0	100.0000	0253.9	099.3	105.6	000.2500	0138.0	150.5	14.36
018.0	100.0000	0252.6	099.2	105.7	000.2500	0138.4	152.2	14.09
019.0	100.0000	0252.0	099.2	105.7	000.2500	0138.7	153.9	13.83
020.0	100.0000	0251.6	099.1	105.8	000.2500	0139.0	155.7	13.56

Channel-Six TV Protection Study

WLNETV LI 06+ 1C Dom Int 100.000 kW 283 M HAAT VCY
New Bedford MA 308.0 M COR AMSL
Lat= 41 35 48.0, Lng= 71 11 24.0
Freedom Broadcasting Of Sout BLCT19920604KF
Fac ID# 22591
Dist.=179.58 km, Azi=139.3°, Rev Azi=320.2°

Direct line HAAT Grade B, 47 dBu= 104.01 km & Grade A= 54.71 km

Distance from reference to Grade B = 75.57 km
Cutoff Dist from Full Service or Class CA= 225
Maximum Co-located power= 8.3 kW
WLNETV Signal Contour at Reference location = 28.0 dBu
CH. 205, U/D ratio = 18.0 dB, Maximum FM signal = 65.0 dBu , 6 dB credit added

TV/FM D to U values

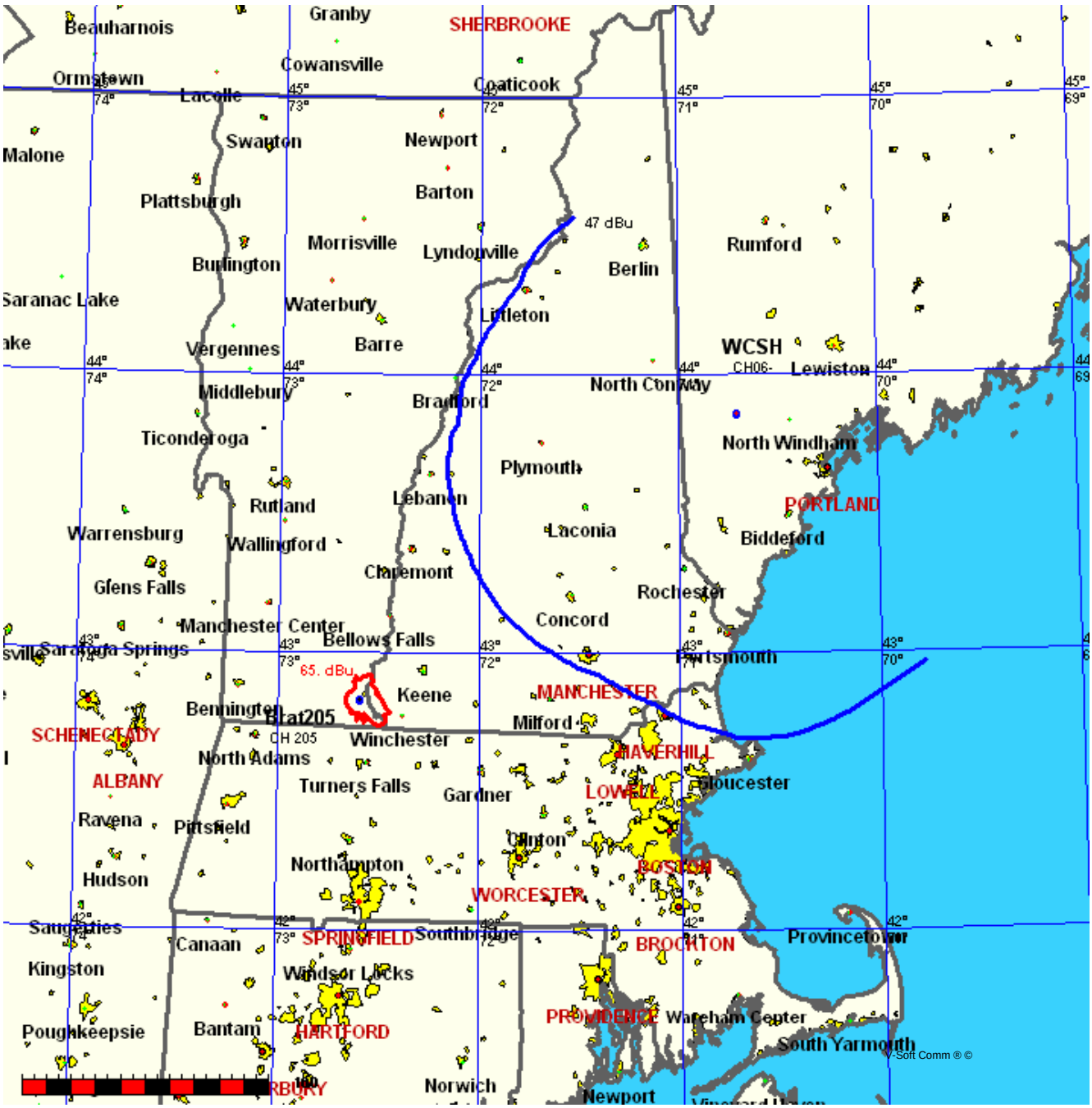
47.0	65.0	55.0	69.5	63.0	74.1	71.0	79.6	79.0	85.9	87.0	92.3
48.0	65.6	56.0	70.0	64.0	74.8	72.0	80.4	80.0	86.7	88.0	93.1
49.0	66.1	57.0	70.6	65.0	75.4	73.0	81.1	81.0	87.4	89.0	93.9
50.0	66.7	58.0	71.2	66.0	76.1	74.0	81.9	82.0	88.2	90.0	94.8
51.0	67.3	59.0	71.8	67.0	76.7	75.0	82.7	83.0	89.0	91.0	94.8
52.0	67.8	60.0	72.3	68.0	77.4	76.0	83.5	84.0	89.8	92.0	94.8
53.0	68.4	61.0	72.9	69.0	78.1	77.0	84.3	85.0	90.6	93.0	94.8
54.0	68.9	62.0	73.5	70.0	78.9	78.0	85.1	86.0	91.5	94.0	94.8

Vermont Public Radio
Brattleboro 205 v WCSH

FMCommander Single Allocation Study
10-14-2007

Brat205 CH 205 A
0.25 kW 305 M COR DA
Intef. = 65.0 dBu

WCSH CH 06- C BLCT19990713KG
100.0 kW, 763 M COR DA
Prot. = 47 dBu



10-14-2007 USGS 03 SEC Terrain Data

WCSH BLCT19990713KG	Brat205
Channel = 06-C	Channel = 205A
Max ERP = 100 kW	Max ERP = 0.25 kW
RCAMSL = 763 M	RCAMSL = 305 M
N. Lat. 43 51 30.0	N. Lat. 42 49 44.0
W. Lng. 70 42 41.0	W. Lng. 72 35 52.0
Protected	Interfering
47 dBu	65 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
174.0	090.6304	0656.5	130.2	094.5	000.2500	0100.4	168.8	10.09
175.0	090.9162	0651.8	130.0	094.5	000.2500	0100.6	166.4	10.53
176.0	091.2025	0648.9	129.9	094.6	000.2500	0100.8	164.2	10.94
177.0	091.4892	0646.7	129.8	094.7	000.2500	0100.9	161.9	11.36
178.0	091.7764	0645.2	129.7	094.9	000.2500	0101.2	159.7	11.77
179.0	092.0640	0642.4	129.6	094.9	000.2500	0101.3	157.4	12.17
180.0	092.3521	0638.9	129.5	095.0	000.2500	0101.4	155.2	12.55
181.0	090.1171	0633.3	128.8	094.8	000.2500	0101.0	152.8	12.92
182.0	087.9094	0626.1	128.0	094.6	000.2500	0100.6	150.5	13.29
183.0	085.7291	0619.9	127.3	094.4	000.2500	0100.1	148.3	13.66
184.0	083.5762	0617.6	126.8	094.2	000.2500	0099.8	146.0	14.03
185.0	081.4506	0618.2	126.5	094.1	000.2500	0099.7	143.8	14.43
186.0	079.3525	0621.1	126.4	094.0	000.2500	0099.6	141.6	14.84
187.0	077.2817	0622.3	126.1	093.9	000.2500	0099.5	139.4	15.26
188.0	075.2383	0619.2	125.5	093.6	000.2500	0099.3	137.3	15.68
189.0	073.2223	0618.3	125.1	093.4	000.2500	0099.4	135.1	16.10
190.0	071.2336	0616.5	124.7	093.1	000.2500	0099.7	133.0	16.52
191.0	069.3056	0611.4	124.0	092.7	000.2500	0099.8	130.9	16.93
192.0	067.4041	0608.4	123.4	092.3	000.2500	0099.2	128.8	17.30
193.0	065.5290	0606.2	122.9	091.9	000.2500	0097.8	126.8	17.63
194.0	063.6804	0599.0	122.1	091.4	000.2500	0094.6	124.8	17.87
195.0	061.8582	0594.0	121.5	090.9	000.2500	0092.1	122.9	18.13
196.0	060.0625	0593.1	121.0	090.4	000.2500	0090.1	120.9	18.40
197.0	058.2932	0594.8	120.8	090.0	000.2500	0088.4	119.0	18.69
198.0	056.5504	0597.8	120.5	089.7	000.2500	0087.6	117.0	19.00
199.0	054.8340	0600.9	120.3	089.2	000.2500	0087.1	115.1	19.32
200.0	053.1441	0603.3	120.1	088.8	000.2500	0086.6	113.2	19.65
201.0	053.3338	0600.0	119.9	088.3	000.2500	0086.1	111.3	19.98
202.0	053.5239	0594.7	119.7	087.8	000.2500	0085.7	109.4	20.31
203.0	053.7142	0591.7	119.5	087.2	000.2500	0085.2	107.6	20.65
204.0	053.9050	0585.8	119.2	086.6	000.2500	0083.9	105.8	20.94
205.0	054.0960	0580.9	118.9	085.9	000.2500	0081.9	104.1	21.22
206.0	054.2874	0581.0	119.0	085.4	000.2500	0080.2	102.3	21.54
207.0	054.4792	0577.9	118.8	084.7	000.2500	0078.5	100.6	21.83
208.0	054.6712	0573.4	118.6	084.0	000.2500	0076.8	098.9	22.11

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
209.0	054.8636	0573.8	118.7	083.3	000.2500	0075.6	097.2	22.45
210.0	055.0564	0579.5	119.1	082.8	000.2500	0074.8	095.3	22.86
211.0	056.0402	0585.0	119.6	082.3	000.2500	0073.8	093.2	23.29
212.0	057.0327	0587.3	120.0	081.7	000.2500	0072.6	091.4	23.70
213.0	058.0339	0586.6	120.2	080.9	000.2500	0072.4	089.7	24.12
214.0	059.0439	0586.3	120.4	080.1	000.2500	0074.1	088.0	24.63
215.0	060.0625	0588.5	120.7	079.3	000.2500	0075.2	086.2	25.14
216.0	061.0899	0585.9	120.8	078.3	000.2500	0075.7	084.7	25.56
217.0	062.1259	0585.6	121.0	077.3	000.2500	0073.1	083.2	25.83
218.0	063.1707	0585.3	121.2	076.3	000.2500	0068.9	081.7	26.01
219.0	064.2242	0586.4	121.5	075.2	000.2500	0064.8	080.1	26.18
220.0	065.2864	0590.7	121.9	074.1	000.2500	0060.5	078.5	26.35
221.0	065.4805	0595.3	122.3	073.0	000.2500	0059.5	077.0	26.65
222.0	065.6748	0598.1	122.5	071.7	000.2500	0061.2	075.7	27.08
223.0	065.8695	0599.2	122.6	070.3	000.2500	0065.4	074.6	27.62
224.0	066.0644	0597.9	122.5	068.8	000.2500	0067.8	073.7	28.01
225.0	066.2596	0600.4	122.7	067.3	000.2500	0072.9	072.6	28.60
226.0	066.4551	0603.2	122.9	065.8	000.2500	0074.0	071.6	28.93
227.0	066.6509	0605.0	123.1	064.2	000.2500	0070.1	070.8	28.92
228.0	066.8470	0607.5	123.3	062.6	000.2500	0069.9	070.0	29.11
229.0	067.0433	0610.5	123.5	060.9	000.2388	0071.9	069.2	29.24
230.0	067.2400	0612.0	123.6	059.1	000.2221	0071.8	068.7	29.07
231.0	066.6836	0613.0	123.6	057.3	000.2055	0074.9	068.4	29.00
232.0	066.1294	0612.3	123.4	055.5	000.1898	0082.1	068.4	29.14
233.0	065.5776	0612.3	123.3	053.7	000.1743	0088.6	068.4	29.17
234.0	065.0281	0613.4	123.3	051.9	000.1599	0088.6	068.4	28.78
235.0	064.4809	0614.5	123.2	050.1	000.1459	0087.7	068.5	28.28
236.0	063.9360	0614.8	123.1	048.3	000.1354	0097.1	068.8	28.43
237.0	063.3934	0614.2	123.0	046.6	000.1256	0098.7	069.3	28.06
238.0	062.8532	0612.6	122.8	044.9	000.1166	0096.2	069.9	27.41
239.0	062.3152	0610.9	122.6	043.2	000.1079	0101.1	070.6	27.15
240.0	061.7796	0610.7	122.4	041.6	000.0999	0109.2	071.4	27.04
241.0	061.3716	0609.9	122.3	040.0	000.0924	0117.2	072.2	26.88
242.0	060.9649	0608.7	122.2	038.5	000.0946	0127.8	073.1	27.23
243.0	060.5595	0608.5	122.1	037.0	000.0968	0141.2	074.1	27.70
244.0	060.1555	0607.7	121.9	035.6	000.0988	0150.9	075.1	27.93
245.0	059.7529	0606.1	121.7	034.2	000.1008	0155.7	076.3	27.86
246.0	059.3516	0604.5	121.6	032.9	000.1028	0161.6	077.6	27.83
247.0	058.9517	0605.7	121.5	031.6	000.1048	0170.8	078.8	27.93
248.0	058.5531	0605.3	121.4	030.4	000.1065	0177.6	080.1	27.87
249.0	058.1559	0603.1	121.2	029.3	000.1079	0183.0	081.6	27.68
250.0	057.7600	0601.3	121.0	028.3	000.1089	0188.0	083.1	27.45
251.0	057.3352	0599.5	120.8	027.3	000.1099	0191.5	084.6	27.13
252.0	056.9119	0596.3	120.5	026.4	000.1108	0195.2	086.3	26.79
253.0	056.4903	0592.9	120.2	025.6	000.1116	0195.5	088.0	26.30
254.0	056.0701	0591.5	120.1	024.8	000.1124	0193.3	089.7	25.73
255.0	055.6516	0588.6	119.8	024.1	000.1132	0189.7	091.5	25.09
256.0	055.2346	0588.3	119.7	023.3	000.1139	0184.9	093.2	24.43
257.0	054.8192	0587.7	119.5	022.6	000.1147	0180.1	094.9	23.77
258.0	054.4054	0584.1	119.2	022.0	000.1152	0177.1	096.8	23.14
259.0	053.9931	0580.0	118.9	021.5	000.1158	0174.5	098.7	22.54

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
260.0	053.5824	0577.2	118.6	021.0	000.1163	0171.8	100.6	21.95
261.0	052.4176	0573.1	118.1	020.7	000.1166	0169.5	102.6	21.36
262.0	051.2656	0565.6	117.3	020.5	000.1168	0168.3	104.8	20.80
263.0	050.1264	0561.3	116.7	020.2	000.1171	0167.1	106.9	20.28
264.0	049.0000	0559.3	116.3	019.9	000.1179	0165.5	108.9	19.82
265.0	047.8864	0557.4	115.9	019.6	000.1196	0164.0	110.9	19.40
266.0	046.7856	0548.7	115.0	019.6	000.1197	0163.9	113.1	18.95
267.0	045.6976	0534.7	113.6	019.8	000.1184	0165.2	115.4	18.48
268.0	044.6224	0527.5	112.7	019.9	000.1182	0165.3	117.6	18.05
269.0	043.5600	0527.6	112.4	019.6	000.1196	0163.9	119.5	17.69
270.0	042.5104	0528.2	112.2	019.4	000.1210	0162.1	121.4	17.32
271.0	040.9088	0532.9	112.1	019.1	000.1228	0158.7	123.3	16.93
272.0	039.3380	0538.5	112.1	018.8	000.1245	0155.2	125.2	16.54
273.0	037.7979	0544.5	112.1	018.6	000.1260	0152.5	127.0	16.17
274.0	036.2886	0547.4	111.8	018.5	000.1267	0151.2	129.0	15.78
275.0	034.8100	0549.2	111.4	018.4	000.1271	0150.6	131.0	15.40
276.0	033.3622	0552.7	111.1	018.3	000.1276	0149.7	132.9	15.01
277.0	031.9451	0553.6	110.7	018.3	000.1276	0149.8	134.9	14.62
278.0	030.5588	0551.6	110.0	018.4	000.1269	0151.0	136.9	14.23
279.0	029.2032	0551.7	109.5	018.5	000.1265	0151.7	138.9	13.85
280.0	027.8784	0554.3	109.1	018.5	000.1263	0151.9	140.8	13.47
281.0	026.3888	0554.3	108.4	018.7	000.1255	0153.4	142.8	13.11
282.0	024.9400	0551.5	107.5	018.9	000.1241	0156.0	144.8	12.76
283.0	023.5322	0554.9	107.0	019.0	000.1235	0157.1	146.7	12.44
284.0	022.1653	0565.2	107.0	019.0	000.1238	0156.4	148.5	12.11
285.0	020.8392	0577.4	106.9	018.9	000.1241	0155.9	150.4	11.81
286.0	019.5541	0586.1	106.6	019.0	000.1237	0156.7	152.3	11.52
287.0	018.3098	0594.8	106.2	019.1	000.1231	0158.0	154.1	11.23
288.0	017.1065	0601.9	105.7	019.2	000.1222	0159.9	156.0	10.95
289.0	015.9440	0608.6	105.2	019.4	000.1211	0161.9	157.8	10.67
290.0	014.8225	0612.7	104.5	019.6	000.1197	0163.9	159.7	10.36
291.0	014.5009	0614.5	104.3	019.7	000.1193	0164.3	161.5	10.03
292.0	014.1828	0618.3	104.2	019.7	000.1190	0164.5	163.3	09.71
293.0	013.8682	0619.0	104.0	019.8	000.1184	0165.1	165.1	09.38
294.0	013.5571	0617.6	103.6	020.0	000.1175	0165.9	166.9	09.04

Channel-Six TV Protection Study

WCSH LI 06- C Dom Int 100.000 kW 610 M HAAT V N DA=D
Portland ME 763.0 M COR AMSL
Lat= 43 51 30.0, Lng= 70 42 41.0
Pacific And Southern Company BLCT19990713KG
Fac ID# 39664
Dist.=190.99 km, Azi=52.5°, Rev Azi=233.8°

Direct line HAAT Grade B, 47 dBu= 123.28 km & Grade A= 68.52 km

Distance from reference to Grade B = 67.72 km
Cutoff Dist from Full Service or Class CA= 225
Maximum Co-located power= 8.3 kW
WCSH Signal Contour at Reference location = 28.8 dBu
CH. 205, U/D ratio = 18.0 dB, Maximum FM signal = 65.0 dBu , 6 dB credit added

TV/FM D to U values

47.0	65.0	55.0	69.5	63.0	74.1	71.0	79.6	79.0	85.9	87.0	92.3
48.0	65.6	56.0	70.0	64.0	74.8	72.0	80.4	80.0	86.7	88.0	93.1
49.0	66.1	57.0	70.6	65.0	75.4	73.0	81.1	81.0	87.4	89.0	93.9
50.0	66.7	58.0	71.2	66.0	76.1	74.0	81.9	82.0	88.2	90.0	94.8
51.0	67.3	59.0	71.8	67.0	76.7	75.0	82.7	83.0	89.0	91.0	94.8
52.0	67.8	60.0	72.3	68.0	77.4	76.0	83.5	84.0	89.8	92.0	94.8
53.0	68.4	61.0	72.9	69.0	78.1	77.0	84.3	85.0	90.6	93.0	94.8
54.0	68.9	62.0	73.5	70.0	78.9	78.0	85.1	86.0	91.5	94.0	94.8