

Technical Exhibit  
Application for Construction Permit  
Freehold, NJ  
Channel 207A  
3.8 kW 50m HAAT

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#### Predicted Coverage Contours

The proposed HAAT and the predicted 60 dBu contours were calculated in accordance with Section 47 C.F.R. 73.313. The average terrain elevations were calculated using the NGDC 30 second terrain database.

All contours plotted in exhibits are displayed along 360 radials and in accordance with the propagation prediction curves of Section 73.333.

#### Interference Compliance

Contour protection, as required by C.F.R. Section 73.509 to co-channel and first, second and third adjacent channels is demonstrated herein by Figures 1. Required spacing to I.F. and/or channels 221-223 is shown in Figure 1.

#### TV6 Interference Analysis

The nearest TV6 station WPIV-TV, licensed to Philadelphia, PA is located 95 km from the proposed antenna site. Section 73.525 designates TV 6 stations within 196 km of proposed FM stations to be affected, therefore WPIV is an affected TV 6 station.

Figure 2 demonstrates the proposed is compliant with Section 73.525(e)(4)(i) using a vertically-only polarized antenna. Population in the interference area is 3,284 persons (See Figure 2). Pursuant to Section 73.525(c) the applicant will install filters to bring the population within the predicted interference area within the 3,000 person limit.

#### RF Electromagnetic Exposure Analysis

Using a worst case assumption of maximum downward radiation ( $F=1.0$ ) the RF exposure at ground level is 5.7% of the controlled standard.

The tower is fenced with RF warning signs. The power will be reduced or shut off to allow necessary access to the tower.

Figure 1  
Proposed Freehold, NJ

REFERENCE  
40 16 26.6 N.  
74 09 39.5 W.

CH# 207A - 89.3 MHz, Pwr= 3.8 kW, HAAT= 50.0 M, COR= 78.1 M  
Average Protected F(50-50)= 18.35 km

DISPLAY DATES  
DATA 07-28-07  
SEARCH 08-04-07

CH CITY	CALL	TYPE STATE	ANT AZI <--	DI ST FILE #	LAT LNG	PWR(kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
06-1C Philadelphia	WPVI-TV	LI PA	_HN 254.8 74.1	95.45 BLCT2282	40 02 39.0 75 14 26.0	74.100 332	404	102.5 Abc, Inc.	109.9R	-14.4M
205A West Long Branch	WMCX	LI NJ	_EN 87.6 267.7	13.09 BLED19881227KB	40 16 44.0 74 00 26.0	1.000 36	1.6 48	10.2 Monmouth University	0.52	1.59
209A Freehold Township	WRDR	LI NJ	DVX 218.6 38.6	12.16 BMLED20041222DTP	40 11 19.0 74 15 01.0	5.000 27	1.6 64	9.4 Bridgelight, L.L.C.	0.68	1.32
208A South Orange	WSOU	LI NJ	_CX 352.2 172.2	52.35 BMLED20050909ABX	40 44 28.0 74 14 42.0	2.400 95	40.4 149	26.6 Seton Hall University	1.31	10.82
206A Trenton	WWFM	LI NJ	_CX 267.7 87.4	41.61 BLED20021031ABW	40 15 30.0 74 38 59.0	1.150 89	26.3 118	17.9 Mercer County Community Co	1.75	3.63
209B1 Freehold Township	WRDR	CP NJ	DEX 219.9 39.7	28.66 BMPED20061205ABS	40 04 34.0 74 22 37.0	11.000 52	2.5 85	24.7 Bridgelight, L.L.C.	16.31	2.55
206B1 New York	WNYU-FM	LI NY	DCN 17.8 198.0	68.07 BLED1123	40 51 26.0 73 54 48.0	8.300 78	45.6 106	29.4 New York University	12.61	24.88
207A Netcong	990730ME	CP NJ	DEN 326.5 146.2	81.90 BPED19990730ME	40 53 14.0 74 41 55.0	0.600 122	52.7 376	16.3 New Jersey Public Broadcas	15.69	13.12
204A New Brunswick	WRSU-FM	LI NJ	_CN 312.5 132.3	31.77 BLED1206	40 28 00.0 74 26 15.0	1.350 38	1.6 62	11.2 Board Of Governors Of Rutg	13.39	18.86
210B1 New York	WKCR-FM	LI NY	_CN 14.3 194.4	50.20 BLED19850304KY	40 42 43.0 74 00 49.0	0.630 433	1.7 443	34.0 Trustees Of Col umbi a Uni ve	38.85	14.86
210B1 New York	WKCR-FM	CP NY	_CX 15.6 195.7	54.71 BPED20040809ABO	40 44 54.0 73 59 10.0	0.745 409	1.8 422	34.4 Trustees Of Col umbi a Uni ve	43.05	18.97
207A Warminster	WRDV	LI PA	DEN 264.9 84.3	80.91 BLED19940920KA	40 12 19.0 75 06 27.0	1.000 36	31.8 116	9.5 Bux-mont Educational Radi o	36.13	21.72
207A Allentown	WJCS	LI PA	DVN 287.0 106.2	113.24 BLED19990222KA	40 33 52.0 75 26 24.0	0.150 245	44.7 396	13.4 Beacon Broadcasting Corpor	52.49	36.58
205B1 Pemberton	WBZC	LI NJ	DEX 214.4 34.1	58.00 BLED20060724ADI	39 50 34.0 74 32 40.0	10.000 67	1.7 96	16.5 Burlington County College	46.21	39.92
205A Bernardsville	990716MB	APP NJ	DVX 323.5 143.2	55.40 BPED19990716MB	40 40 26.0 74 33 06.0	1.900 79	0.5 172	9.2 New Jersey Public Broadcas	40.59	44.62
206A Teaneck	WFDU	LI NJ	_CN 14.7 194.8	78.88 BLED901	40 57 39.0 73 55 23.0	0.550 152	26.4 195	17.8 Fairleigh Dickinson Uni ver	42.73	47.45
261A Manahawkin	WJRZ-FM	LI NJ	_CX 183.9 3.8	52.94 BLH20051205ADH	39 47 54.0 74 12 10.0	1.700 133	29.3 149	97.7 Jersey Shore Broadcasting	9.5R	43.4M
208A Cherry Hill	WKVP	LI NJ	DEN 235.8 55.3	81.57 BLED19951120KA	39 51 33.0 74 57 00.0	2.000 55	25.4 76	17.3 Educational Media Foundati	45.58	49.59
210A Manahawkin	WNJM	LI NJ	_E_ 185.6 5.6	64.14 BLED19990803KC	39 41 57.0 74 14 05.0	0.200 79	1.0 88	10.9 New Jersey Public Broadcas	48.42	51.64
207A Bridgeton	WNJB-FM	LI NJ	_E_ 223.5 42.9	124.29 BLED19970219KF	39 27 35.0 75 09 28.0	2.500 67	64.7 90	18.5 New Jersey Public Broadcas	49.67	72.48
205A Chatham	980923MB	APP NJ	DCN 332.7 152.5	64.07 BPED19980923MB	40 47 09.0 74 30 37.0	0.125 83	0.8 226	12.6 World Revivals Inc	50.96	49.86
205A Chatham	980923MB	APP NJ	DCX 332.7 152.5	64.07 BPED19980923MB	40 47 09.0 74 30 37.0	0.125 83	0.8 226	12.6 World Revivals, Inc.	50.96	49.86
207A Monroe	WLJP	LI NY	_CN 1.1 181.2	122.53 BLED19940909KA	41 22 38.0 74 07 55.0	0.200 317	59.9 501	19.3 Sound Of Life, Inc.	52.58	68.68
209B1 Delaware Township	WDVR	CP NJ	DEX 291.5 110.9	72.68 BPED20070328ACP	40 30 36.0 74 57 34.0	3.800 221	1.5 221	18.2 Penn-jersey Educational Ra	54.57	52.75
209A Delaware Township	WDVR	LI NJ	DEN 291.5 111.0	72.58 BLED19990603KA	40 30 37.0 74 57 29.0	4.800 92	1.6 202	18.1 Penn-jersey Educational Ra	54.32	52.77

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 2 *IN* (Overlap in km)	*OUT*
204A Hempstead	WRHU	LIC NY	_CN	43.5 223.9	68.26 BMLED19881011KA	40 43 03.0 73 36 12.0	0.470 55	1.5 78	13.0 Hofstra University	56.68	54.25
06 1E New Haven	WEDY-D	CPM CT	_HN	41.6 222.4	157.82 BMPEDT20020305AA	41 19 42.0 72 54 25.0	0.400 88	131	31.6 Connecticut Public Broadca	38.1R	119.7M

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Terrain database is NGDC 30 SEC  
ERP and HAAT are on direct line to and from reference station.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
"\*"affixed to 'IN' or 'OUT' values = site inside protected contour.

Figure 1-1  
Proposed Freehold, NJ

FMCommander Single Allocation Study  
08-04-2007

NEW CH 207 A  
3.8 kW 78.1 M COR DA  
Prot. = 60 dBu  
Intef. = 100 dBu

WMCX CH 205 A BLED19881227KB  
1.0 kW, 48 M COR  
Prot. = 60 dBu  
Intef. = 100 dBu

Scale = 1:250,000

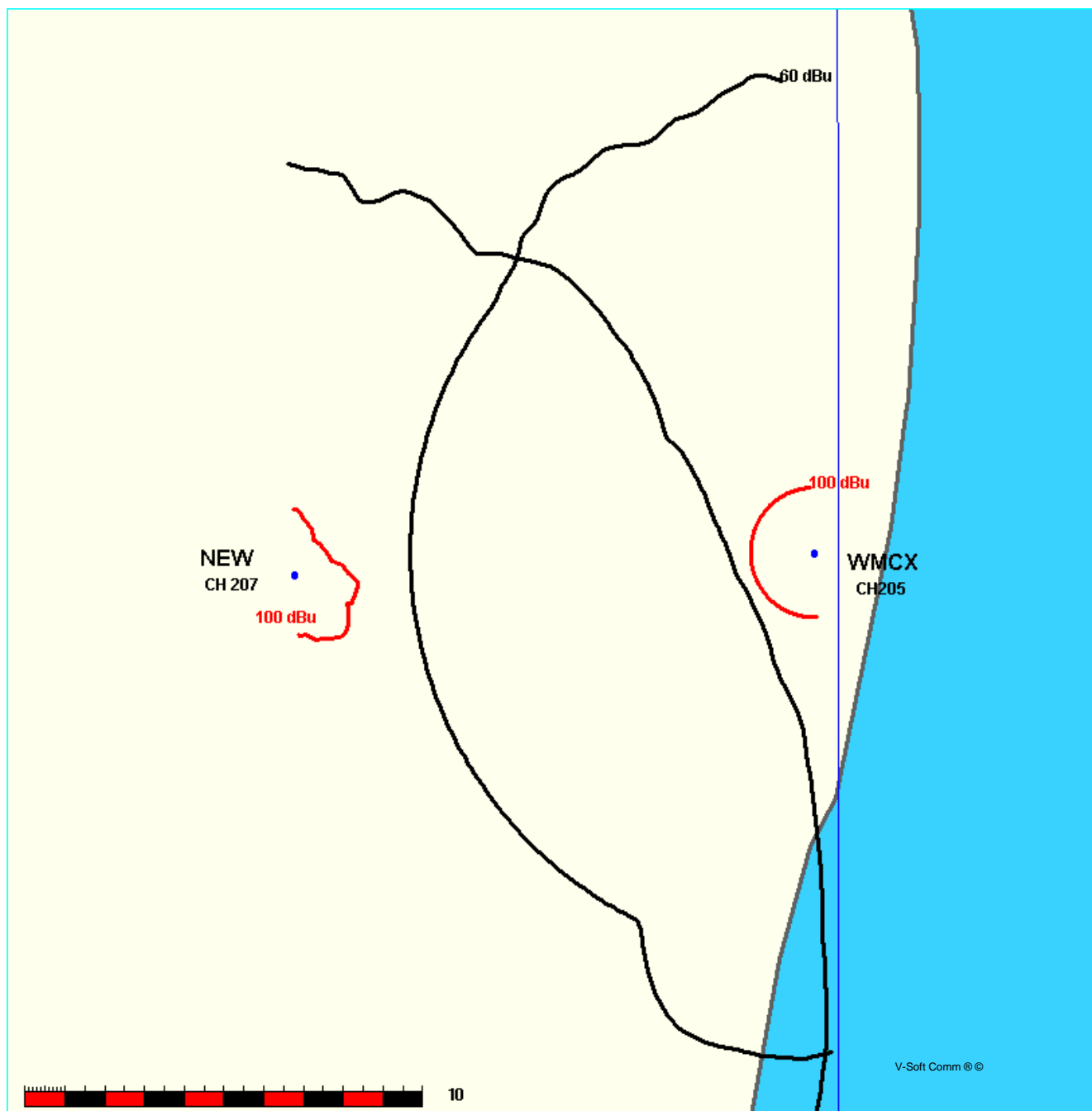


Figure 1-2  
Proposed Freehold, NJ

FMCommander Single Allocation Study  
08-04-2007

NEW CH 207 A  
3.8 kW 78.1 M COR DA  
Prot. = 60 dBu  
Intef. = 100 dBu

WRDR CH 209 A BMLED20041222DTP  
5.0 kW, 64 M COR DA  
Prot. = 60 dBu  
Intef. = 100 dBu

Scale = 1:250,000

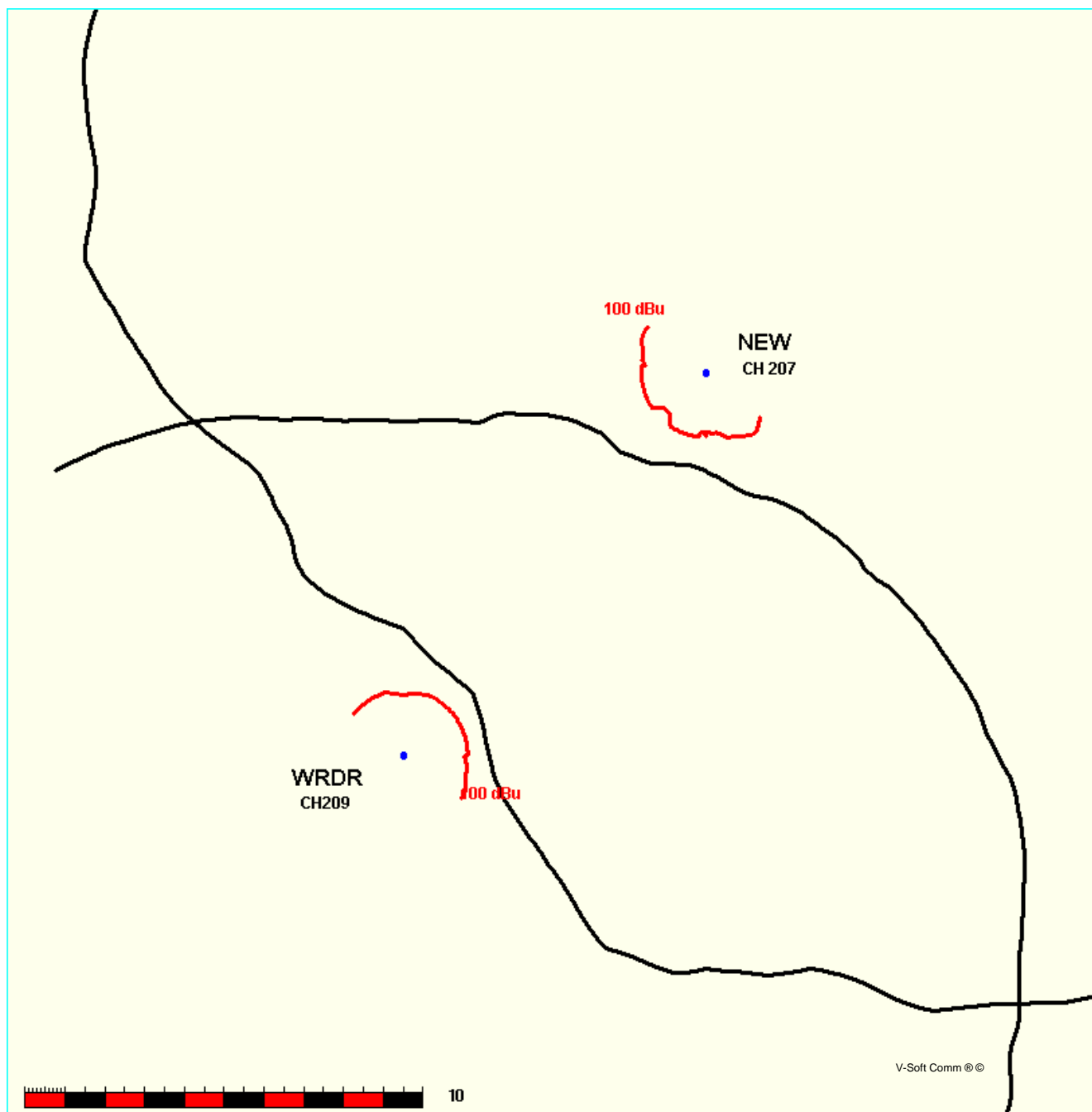


Figure 1-3  
Proposed Freehold, NJ

FMCommander Single Allocation Study  
08-04-2007

NEW CH 207 A  
3.8 kW 78.1 M COR DA  
Prot. = 60 dBu  
Intef. = 54 dBu

WSOU CH 208 A BMLED20050909ABX  
2.4 kW, 149 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu

Scale = 1:750,000

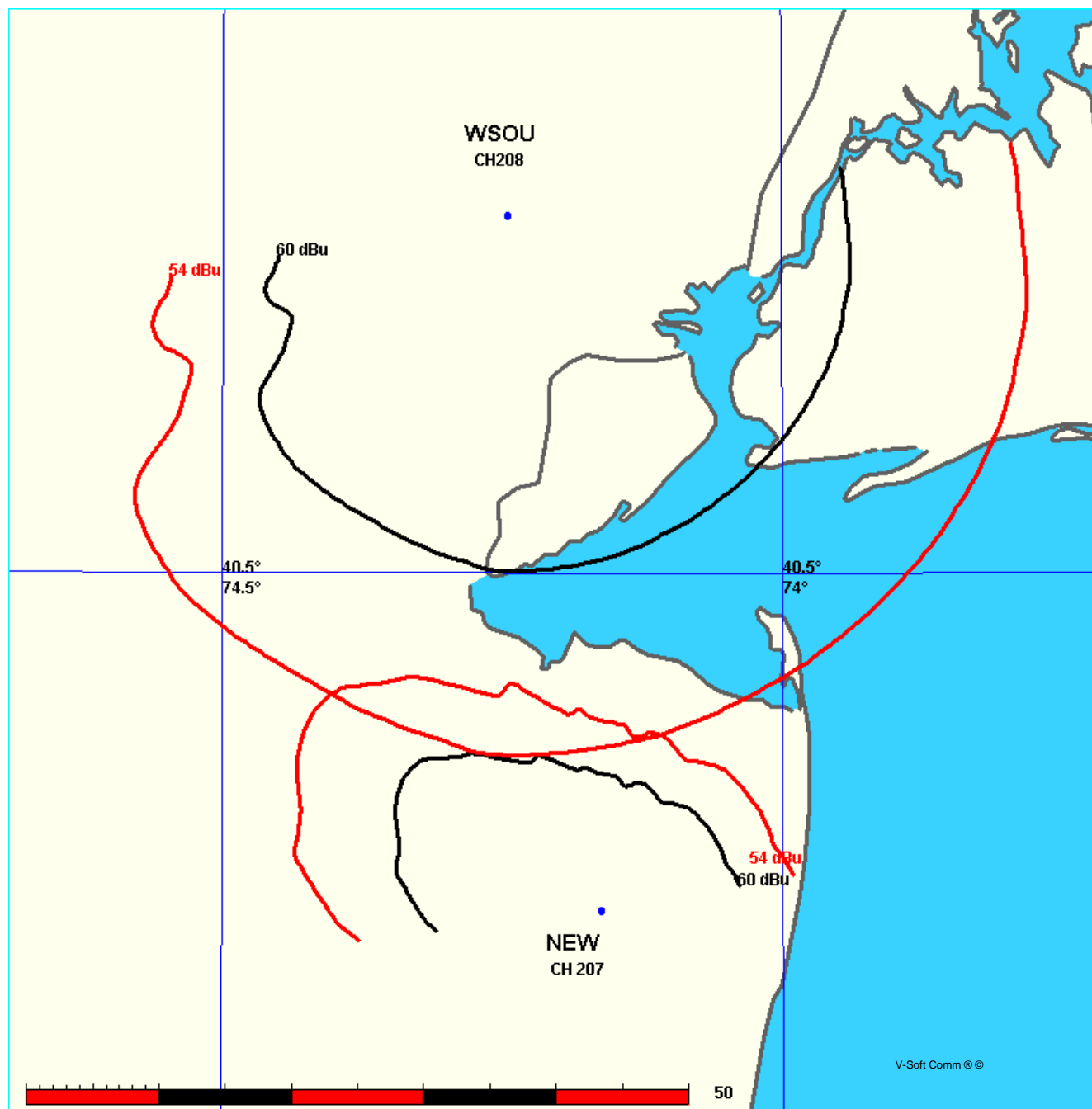


Figure 1-4  
Proposed Freehold, NJ

FMCommander Single Allocation Study  
08-04-2007

NEW CH 207 A  
3.8 kW 78.1 M COR DA  
Prot. = 60 dBu  
Intef. = 54 dBu

WSOU CH 208 A  
2.4 kW, 149 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu

BMLED20050909ABX

Scale = 1:250,000

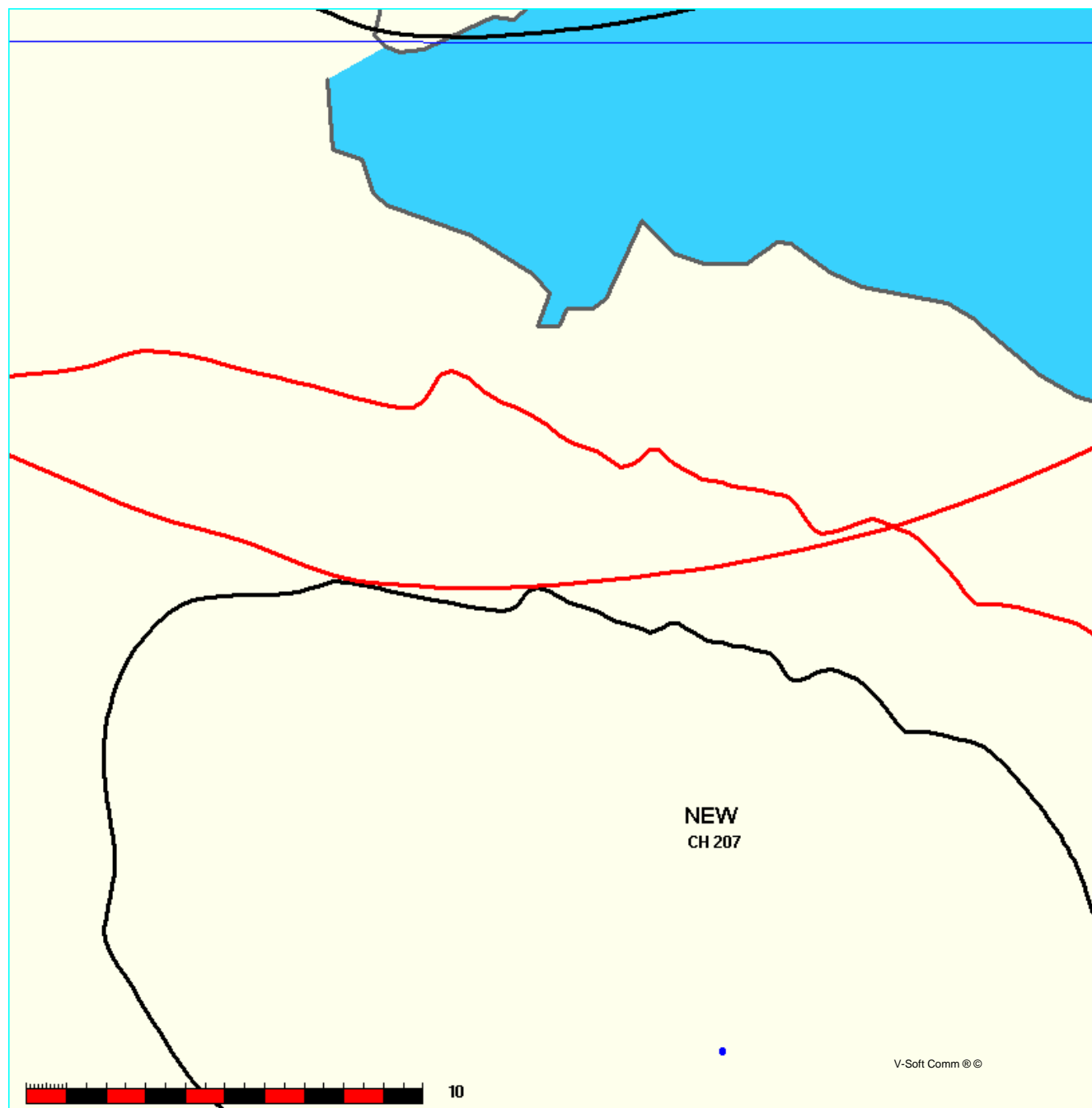




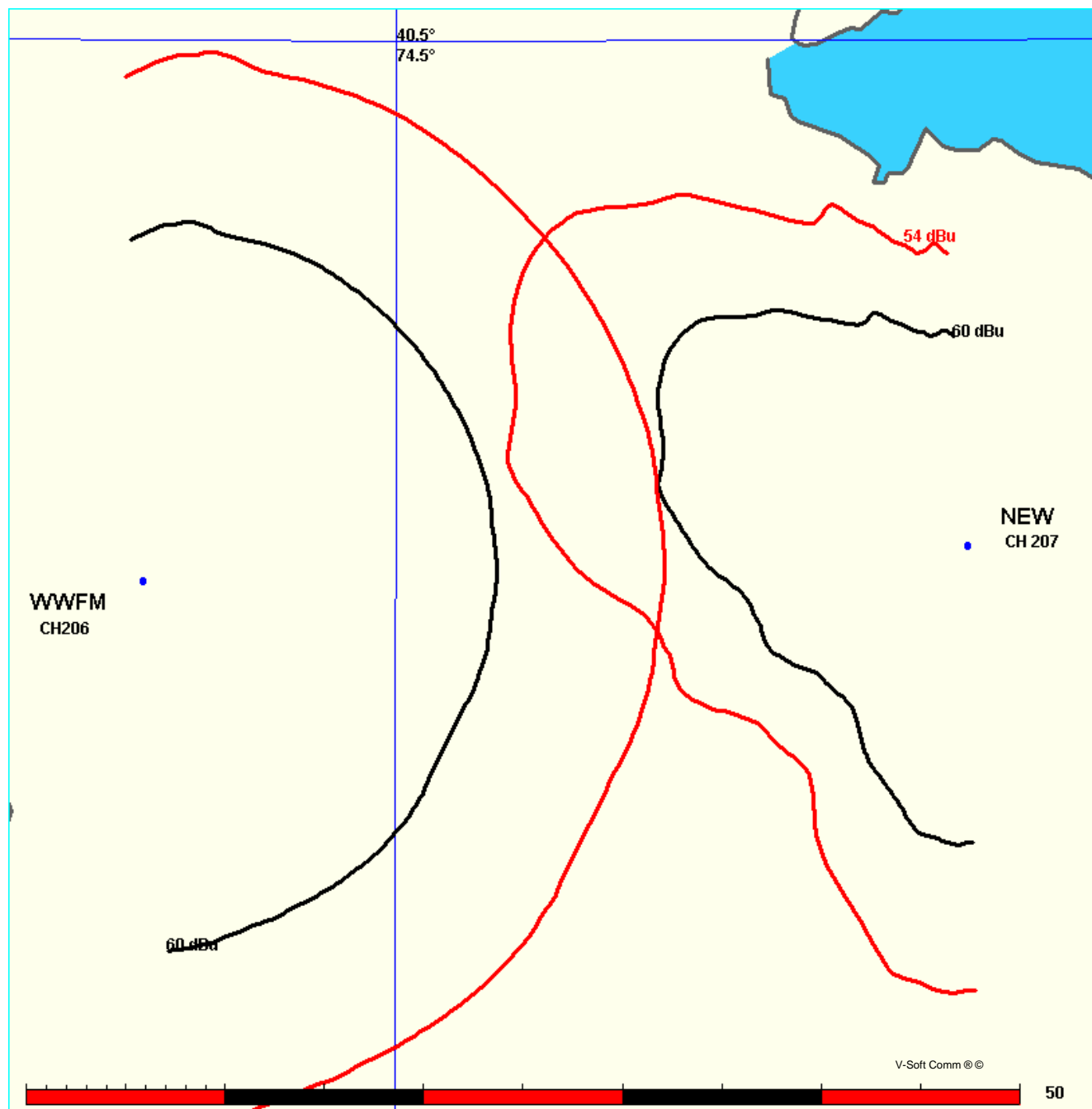
Figure 1-5  
Proposed Freehold, NJ

FMCommander Single Allocation Study  
08-04-2007

NEW CH 207 A  
3.8 kW 78.1 M COR DA  
Prot. = 60 dBu  
Intef. = 54 dBu

WWFM CH 206 A BLED20021031ABW  
1.15 kW, 118 M COR  
Prot. = 60 dBu  
Intef. = 54 dBu

Scale = 1:500,000



## Channel -Si x TV Protection Study

Direct Line HAAT Grade B, 47 dBu= 102.51 km & Grade A= 53.69 km

Distance from reference to Grade B = -7.05 km  
Cutoff Dist from Full Service or Class CA= 196  
Maximum Co-located power= 12 kW  
WPVI-TV Signal Contour at Reference location = 49.8 dBu  
CH. 207, U/D ratio = 16.5 dB, Maximum FM signal = 66.3 dBu , add 6 dB if within angle.

TV/FM D to U values

[illegible]

Figure 2-1

08-04-2007 NGDC 30 SEC Terrain Data

WPVI TV BLCT2282  
 Channel = 06-1C  
 Max ERP = 74.1 kW  
 RCAMSL = 404 M  
 N. Lat. 40 02 39.0  
 W. Lng. 75 14 26.0  
 Protected  
 47 dBu

NEW  
 Channel = 207A  
 Max ERP = 0.095 kW  
 RCAMSL = 78.1 M  
 N. Lat. 40 16 26.6  
 W. Lng. 74 09 39.5  
 Interfering  
 66.3069 dBu

Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Azi muth (degrees)	ERP (kW)	HAAT (m)	Di st (km)	Actual (dBu)
014.0	074.1000	0332.4	102.5	318.3	000.0784	0040.7	099.6	15.47
015.0	074.1000	0331.9	102.5	318.9	000.0772	0040.7	098.0	15.73
016.0	074.1000	0331.5	102.5	319.5	000.0762	0040.6	096.5	15.97
017.0	074.1000	0331.4	102.5	320.1	000.0751	0040.4	095.0	16.21
018.0	074.1000	0331.5	102.5	320.6	000.0733	0040.2	093.5	16.41
019.0	074.1000	0331.5	102.5	321.2	000.0716	0040.0	092.0	16.62
020.0	074.1000	0331.6	102.5	321.8	000.0698	0039.6	090.5	16.83
021.0	074.1000	0331.9	102.5	322.4	000.0680	0039.2	088.9	17.03
022.0	074.1000	0332.2	102.5	323.0	000.0663	0038.7	087.4	17.23
023.0	074.1000	0332.3	102.5	323.6	000.0646	0038.3	085.9	17.44
024.0	074.1000	0331.8	102.5	324.2	000.0630	0037.9	084.3	17.65
025.0	074.1000	0331.2	102.5	324.7	000.0614	0037.5	082.7	17.86
026.0	074.1000	0330.5	102.4	325.3	000.0598	0037.2	081.2	18.07
027.0	074.1000	0329.6	102.3	325.9	000.0582	0036.9	079.6	18.27
028.0	074.1000	0328.3	102.3	326.4	000.0568	0036.7	078.0	18.48
029.0	074.1000	0326.8	102.2	327.0	000.0553	0036.5	076.3	18.69
030.0	074.1000	0325.3	102.0	327.5	000.0539	0036.3	074.7	18.89
031.0	074.1000	0323.4	101.9	328.0	000.0525	0036.1	073.1	19.09
032.0	074.1000	0321.3	101.8	328.6	000.0512	0036.0	071.4	19.30
033.0	074.1000	0319.1	101.6	329.1	000.0499	0035.8	069.8	19.50
034.0	074.1000	0317.1	101.5	329.6	000.0487	0035.7	068.1	19.70
035.0	074.1000	0315.2	101.3	330.1	000.0474	0035.5	066.4	19.91
036.0	074.1000	0313.3	101.2	330.6	000.0464	0035.3	064.8	20.13
037.0	074.1000	0311.5	101.1	331.1	000.0454	0035.2	063.1	20.37
038.0	074.1000	0309.8	100.9	331.7	000.0444	0035.1	061.5	20.61
039.0	074.1000	0308.1	100.8	332.2	000.0434	0035.0	059.8	20.87
040.0	074.1000	0306.5	100.7	332.7	000.0424	0034.9	058.1	21.14
041.0	074.1000	0305.3	100.6	333.3	000.0414	0035.0	056.5	21.43
042.0	074.1000	0304.5	100.5	333.9	000.0403	0035.2	054.8	21.73
043.0	074.1000	0304.1	100.5	334.5	000.0392	0035.6	053.2	22.06
044.0	074.1000	0304.0	100.5	335.2	000.0380	0036.5	051.5	22.46
045.0	074.1000	0303.7	100.4	335.9	000.0368	0037.5	049.9	22.90
046.0	074.1000	0303.6	100.4	336.6	000.0356	0038.7	048.3	23.36
047.0	074.1000	0304.0	100.5	337.3	000.0344	0039.8	046.6	23.80
048.0	074.1000	0304.7	100.5	338.1	000.0331	0040.3	045.0	24.18
049.0	074.1000	0305.3	100.6	339.0	000.0317	0040.1	043.4	24.45
050.0	074.1000	0305.8	100.6	339.8	000.0304	0039.4	041.7	24.66
051.0	074.1000	0306.6	100.7	340.7	000.0293	0038.8	040.1	24.91
052.0	074.1000	0307.7	100.8	341.6	000.0281	0038.5	038.5	25.24
053.0	074.1000	0309.3	100.9	342.7	000.0269	0038.4	036.9	25.61
054.0	074.1000	0311.4	101.0	343.9	000.0255	0038.0	035.3	25.90
055.0	074.1000	0314.2	101.3	345.2	000.0241	0037.3	033.7	26.13
056.0	074.1000	0317.2	101.5	346.6	000.0226	0037.4	032.1	26.48
057.0	074.1000	0319.9	101.7	348.0	000.0210	0037.8	030.5	26.97
058.0	074.1000	0321.9	101.8	349.5	000.0196	0037.8	028.9	27.48
059.0	074.1000	0323.1	101.9	351.0	000.0187	0038.4	027.3	28.36
060.0	074.1000	0323.7	101.9	352.5	000.0181	0039.7	025.7	29.54
061.0	074.1000	0324.3	102.0	354.1	000.0174	0040.4	024.0	30.65
062.0	074.1000	0325.1	102.0	356.0	000.0167	0039.3	022.4	31.42

Figure 2-1

063.0	074.1000	0325.9	102.1	358.0	000.0159	0038.5	020.8	32.28
064.0	074.1000	0326.7	102.1	000.3	000.0150	0039.1	019.3	33.42
065.0	074.1000	0327.5	102.2	003.0	000.0134	0040.7	017.7	34.62
066.0	074.1000	0328.0	102.2	006.0	000.0117	0042.9	016.1	35.83
067.0	074.1000	0328.4	102.3	009.4	000.0099	0042.5	014.6	36.29
068.0	074.1000	0328.9	102.3	013.6	000.0089	0045.4	013.2	38.30
069.0	074.1000	0329.4	102.3	018.7	000.0079	0050.4	011.8	40.81
070.0	074.1000	0330.2	102.4	025.0	000.0061	0053.0	010.5	42.31
071.0	074.1000	0330.7	102.4	032.9	000.0049	0058.8	009.3	44.23
072.0	074.1000	0331.0	102.4	042.5	000.0049	0067.2	008.3	47.08
073.0	074.1000	0331.3	102.5	054.3	000.0049	0067.0	007.6	48.49
074.0	074.1000	0332.0	102.5	067.9	000.0049	0066.0	007.3	49.17
075.0	074.1000	0333.1	102.6	081.9	000.0080	0057.6	007.4	50.01
076.0	074.1000	0334.7	102.7	095.0	000.0122	0057.3	007.9	50.74
077.0	074.1000	0336.4	102.8	106.1	000.0203	0057.9	008.7	51.49
078.0	074.1000	0338.1	102.9	115.1	000.0308	0056.4	009.7	51.13
079.0	074.1000	0339.8	103.0	122.3	000.0426	0056.0	011.0	50.37
080.0	074.1000	0341.4	103.1	128.2	000.0556	0056.5	012.3	49.46
081.0	074.1000	0342.9	103.2	133.0	000.0695	0057.1	013.8	48.49
082.0	074.1000	0344.3	103.3	136.9	000.0834	0056.8	015.3	47.76
083.0	074.1000	0345.7	103.4	140.3	000.0950	0055.2	016.8	46.73
084.0	074.1000	0347.0	103.5	143.1	000.0950	0053.4	018.4	45.08
085.0	074.1000	0348.3	103.6	145.7	000.0950	0051.6	020.0	43.42
086.0	074.1000	0349.5	103.7	147.9	000.0950	0049.8	021.6	41.77
087.0	074.1000	0350.9	103.8	149.8	000.0950	0048.8	023.3	40.32
088.0	074.1000	0352.1	103.9	151.6	000.0917	0048.2	024.9	38.85
089.0	074.1000	0353.3	103.9	153.3	000.0883	0047.8	026.6	37.49
090.0	074.1000	0354.4	104.0	154.8	000.0853	0047.6	028.2	36.26
091.0	074.1000	0355.5	104.1	156.1	000.0826	0047.6	029.9	35.19
092.0	074.1000	0356.7	104.2	157.4	000.0801	0047.7	031.6	34.24
093.0	074.1000	0357.9	104.3	158.7	000.0778	0047.8	033.3	33.42
094.0	074.1000	0359.0	104.3	159.8	000.0756	0048.1	035.0	32.65
095.0	074.1000	0360.1	104.4	160.9	000.0725	0048.2	036.6	31.83
096.0	074.1000	0361.3	104.5	161.9	000.0694	0048.2	038.3	31.00
097.0	074.1000	0362.5	104.6	162.9	000.0665	0048.1	040.0	30.17
098.0	074.1000	0363.5	104.7	163.9	000.0638	0047.9	041.7	29.36
099.0	074.1000	0364.2	104.7	164.8	000.0611	0047.6	043.4	28.56
100.0	074.1000	0364.8	104.8	165.8	000.0585	0047.4	045.1	27.81
101.0	074.1000	0365.5	104.8	166.7	000.0562	0047.5	046.8	27.13
102.0	074.1000	0366.2	104.9	167.5	000.0539	0047.7	048.5	26.50
103.0	074.1000	0366.9	104.9	168.4	000.0517	0048.0	050.2	25.89
104.0	074.1000	0367.5	105.0	169.2	000.0496	0048.5	051.8	25.29
105.0	074.1000	0368.1	105.0	170.0	000.0476	0049.0	053.5	24.70
106.0	074.1000	0368.6	105.0	170.8	000.0468	0049.5	055.2	24.20
107.0	074.1000	0369.1	105.1	171.6	000.0460	0050.0	056.9	23.70
108.0	074.1000	0369.5	105.1	172.3	000.0453	0050.4	058.5	23.21
109.0	074.1000	0370.0	105.2	173.1	000.0445	0050.7	060.2	22.71
110.0	074.1000	0370.4	105.2	173.8	000.0438	0051.1	061.9	22.23
111.0	074.1000	0370.8	105.2	174.5	000.0431	0051.3	063.5	21.75
112.0	074.1000	0371.2	105.2	175.3	000.0424	0051.5	065.2	21.29
113.0	074.1000	0371.5	105.3	176.0	000.0417	0051.6	066.8	20.83
114.0	074.1000	0371.9	105.3	176.7	000.0410	0051.8	068.5	20.37
115.0	074.1000	0372.4	105.3	177.4	000.0404	0052.1	070.1	19.93
116.0	074.1000	0373.0	105.4	178.0	000.0398	0052.3	071.8	19.48
117.0	074.1000	0373.7	105.4	178.7	000.0392	0052.6	073.4	19.03
118.0	074.1000	0374.2	105.5	179.3	000.0386	0052.8	075.1	18.59
119.0	074.1000	0374.5	105.5	180.0	000.0379	0053.1	076.7	18.15
120.0	074.1000	0374.6	105.5	180.7	000.0379	0053.4	078.3	17.78
121.0	074.1000	0374.6	105.5	181.3	000.0379	0053.7	079.9	17.41
122.0	074.1000	0374.7	105.5	182.0	000.0379	0053.9	081.5	17.04
123.0	074.1000	0374.9	105.5	182.6	000.0379	0053.9	083.1	16.66
124.0	074.1000	0375.3	105.6	183.3	000.0379	0053.8	084.7	16.26
125.0	074.1000	0375.8	105.6	183.9	000.0379	0053.5	086.3	15.85
126.0	074.1000	0376.3	105.6	184.5	000.0379	0053.2	087.9	15.45

Figure 2-1

127.0	074.1000	0376.8	105.7	185.1	000.0379	0052.9	089.5	15.06
128.0	074.1000	0377.2	105.7	185.7	000.0379	0052.6	091.1	14.67
129.0	074.1000	0377.6	105.8	186.3	000.0379	0052.2	092.6	14.29
130.0	074.1000	0377.9	105.8	186.9	000.0379	0052.0	094.2	13.92
131.0	074.1000	0378.4	105.8	187.5	000.0379	0051.8	095.8	13.57
132.0	074.1000	0379.0	105.9	188.1	000.0379	0051.6	097.3	13.24
133.0	074.1000	0379.7	105.9	188.7	000.0379	0051.5	098.9	12.91
134.0	074.1000	0380.4	106.0	189.3	000.0379	0051.4	100.5	12.59

