

## Exhibit 18

### TV Channel 6 Study

The attached chart shows the following: The proposed site is 189.75 km from WRGB, a TV channel 6 station in Schenectady, NY. The proposed site is 167.94 km from WEDY, a TV channel 6 station in New Haven, CT. The proposed site is 167.01 km from WCSH, a TV channel 6 station in Portland, ME. These are all well outside the guidelines of 159 km shown in Table A, §73.525 of the Commission's rules. They can therefore be ignored.

The proposed site is 112.17 km from WLNE, a TV channel 6 station in New Bedford, MA. This is well within the guidelines of 159 km shown in Table A, §73.525 of the Commission's rules. This exhibit demonstrates that the proposed station will not cause interference in an area containing more than the 3,000 persons as specified in §73.525(c). This is possible because the proposed site is beyond the 47 dBu protected contour of the TV station.

The affected population in the area of interference was determined as follows:

1) A chart was prepared tabulating the data from §73.599 Figure 1 for channel 219. It shows each protected contour of the TV station, the associated undesired/desired ratio, and the resultant interfering contour (= TV6 protected contour + U/D ratio) for the proposed FM station to create "just perceptible" interference.

2) Since the proposed FM antenna is circularly polarized, a power correction is made for the vertical polarization. The equivalent power is  $H + V/40 = 0.572 + 0.572/40 = 0.5863$  kW, since the predicted area of interference lies entirely outside the limits of a city of 50,000 persons (§73.525(e)(4)(ii)). This value is used in all contour subsequent calculations in this exhibit relating to the proposed station.

3) A map was prepared showing the predicted TV6 protected contours in the area of interest and the associated predicted FM interfering contours over the same area. The first contours plotted are the 47 dBu protected TV contour and the corresponding 83.0 dBu interfering FM contours. Contours are calculated according to the procedures specified in §73.684 for the TV protected contours and §73.313 for the FM station interference contours.

5) Since the interfering contour from the proposed station and the 47 dBu protected contour from the TV station do not intersect, no population will be receive interference.

**Since it has been demonstrated that the population in the "area of interference" is less than the statutory limit of 3,000, the Commission may properly grant the proposed construction permit.**

Living Proof, Inc.

MA Lunenburg

REFERENCE  
42 32 09 N.  
71 41 18 W.

CH# 219A - 91.7 MHz, Pwr= 0.572 kw, HAAT=34.6 M, COR= 162 M  
Average Protected F(50-50)= 9.42 km  
Ave. F(50-10) 40 dBu= 31.9 54 dBu= 13.2 80 dBu= 2.9 100 dBu= 1.6

DISPLAY DATES  
DATA 01-27-06  
SEARCH 02-25-06

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kw) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT* (Overlap in km)
219A Lunenburg	AP219	APP DCX MA	13.0 193.0	7.79 BNPED20000118ACZ	42 36 15 71 40 01	0.630 62	168 45.3	12.9 Living Proof, Inc.	-49.06*<	-45.44*<
219A Stow	AP219	APP DCN MA	117.2 297.3	17.52 BNPED20000118ABW	42 27 50 71 29 55	0.174 51	154 28.2	8.5 University Of Massachusett	-16.20<	-9.05<
219A Maynard parameters as shown on application	WAVM.A	APP DHN MA	123.3 303.4	23.08 BPED19990726MA	42 25 19 71 27 13	0.028 -18	76 13.0	4.1 Maynard School Committee	4.58	1.01
219A Gardner	WJWT.C	CP DCX MA	274.9 94.6	29.95 BNPED20000118AAI	42 33 29 72 03 06	0.038 86	391 25.0	7.5 Csn International	0.06	6.87
219A Newburyport	WNEF.C	CP DEX MA	58.9 239.4	71.56 BPED20041124AGW	42 51 56 70 56 17	0.980 86	122 57.2	17.0 University Of Massachusett	4.50	21.54
218A Lowell	WUML	LIC DCN MA	66.6 246.9	32.81 BLED19940406KC	42 39 07 71 19 15	1.400 59	114 22.8	15.2 University Of Massachusett	0.28	3.95
217A Fitchburg	WXPL	LIC CN MA	304.9 124.9	10.22 BLED19850821KS	42 35 18 71 47 26	0.100 61	175 0.7	8.1 Fitchburg State College	2.94	1.21
06Z1C Schenectady	WRGB	LI HN NY	274.2 92.6	189.75 BLCT2492	42 38 12 73 59 45	93.300 475	555 1.6	117.2 Freedom Broadcasting Of Ne	159.0R	30.7M
06 1E New Haven	WEDY-D	CPM HN CT	217.3 36.5	167.94 BMPEDT20020305AA	41 19 42 72 54 25	0.400 94	130 1.8	29.2 Connecticut Public Broadca	159.0R	8.9M
06+1C New Bedford	WLNETV	LI CY MA	158.3 338.7	112.17 BLCT19920604KF	41 35 48 71 11 24	100.000 303	308 1.9	103.8 Freedom Broadcasting Of So	159.0R	-46.8M•
06-C Portland	WCSH	LI D N ME	28.0 208.6	167.01 BLCT19990713KG	43 51 30 70 42 41	54.794 576	763 3.4	118.8 Pacific And Southern Compa	159.0R	8.0M

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

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

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

Channel-Six TV Protection Study

WLNETV LI 06+ 1C Dom 100.000 kW 283 M HAAT V C  
 New Bedford MA 308M COR AMSL  
 Lat= 41 35 48, Lng= 71 11 24  
 Freedom Broadcasting Of So BLCT19920604KF  
 Fac ID# 22591, Cutoff Date= 930119  
 Dist.=112.1737 km, Azi=158.3°, Rev Azi=338.7°

Direct line HAAT Grade B, 47 dBu= 103.77 km & Grade A= 54.51 km

Distance from reference to Grade B = 8.4 km  
 Cutoff Dist from Full Service= 159  
 Maximum Co-located power= 100 kW  
 WLNETV Signal Contour at Reference location = 44.0 dBu  
 CH. 219, U/D ratio = 36.0 dB, Maximum FM signal = 83.0 dBu , add 6 dB if within angle.

TV/FM D to U values

47.0	83.0		55.0	81.6		63.0	82.0		71.0	85.6		79.0	92.3		87.0
99.2															
48.0	82.9		56.0	81.5		64.0	82.2		72.0	86.4		80.0	93.2		88.0
100.1															
49.0	82.8		57.0	81.5		65.0	82.4		73.0	87.2		81.0	94.0		89.0
101.0															
50.0	82.8		58.0	81.5		66.0	82.8		74.0	88.0		82.0	94.9		90.0
101.8															
51.0	82.4		59.0	81.5		67.0	83.3		75.0	88.8		83.0	95.7		91.0
101.8															
52.0	82.1		60.0	81.6		68.0	83.7		76.0	89.7		84.0	96.6		92.0
101.8															
53.0	81.8		61.0	81.7		69.0	84.3		77.0	90.5		85.0	97.4		93.0
101.8															
54.0	81.7		62.0	81.8		70.0	85.0		78.0	91.4		86.0	98.3		94.0
101.8															

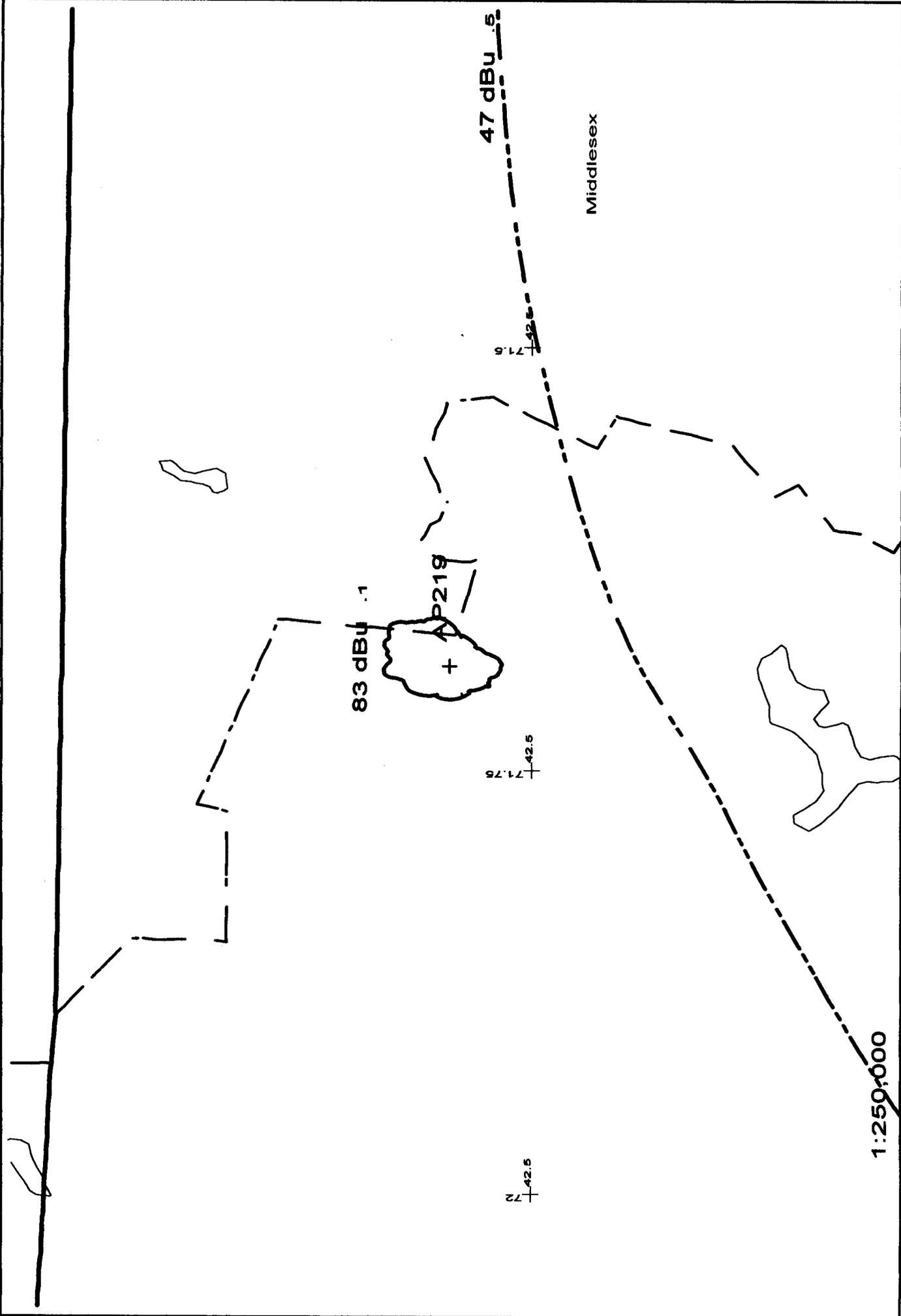
# Exhibit 18

## TV6 Interpolation

Channel 219 - 91.7 MHz

Report Radius 159 km.

TV Contour	Undesired/Desired Ratio	Total
47	36.0	83.0



MA Lun TV6  
 Bob Moore - 02/06

AP219 219A .5863kW 162M AMSL  
 N. Lat. 42 32 09 W. Lng. 71 41 18

0 10 20