

Engineering Report

Exhibit 13 Figure 3 (Amended) Page 1 Signal on Ground Report 2nd Adjacent Test W283BW, Franklin Township, NJ November 2014

The 54 dbu F(50,50) contour of second adjacent Class B station WAXC and WWPR-FM, New York, NY encompass the 94 dbu F(50,10) proposed contour. Protection of this station is by the ratio method, as outlined in Exhibit 12.

Study for center of Radiation	140 m AGL	ERP	27 Watts
Element	Bays	Spacing	
Antenna PSIFMR-	2	Spacing Wavelength	0.8

Distance above Ground Level of Interfering Contour

Depression Angle (Degrees)	Slant Distance To 100.5 dbμV (meters)	Horiz Distance To 100.5 dbμV (meters)	Relative Field	ERP Watts	100.5 dbμV Above Gnd (meters)
1	343.45	343.1	1.000	27.000	134.0
2	343.12	341.6	0.999	26.948	128.1
3	341.78	339.3	0.995	26.739	122.2
4	339.80	336.3	0.989	26.430	116.5
5	337.17	332.6	0.982	26.022	110.9
6	333.90	327.9	0.972	25.520	105.5
7	329.67	322.4	0.960	24.878	100.4
8	324.84	313.1	0.946	24.154	96.0
9	316.20	309.6	0.921	22.886	91.0
10	313.44	301.9	0.913	22.488	86.8
12	306.59	284.7	0.893	21.515	79.5
14	291.07	265.3	0.847	19.392	73.8
16	273.44	244.1	0.796	17.114	70.0
18	253.97	221.6	0.739	14.764	68.0
20	232.97	198.0	0.678	12.423	67.9
25	210.73	137.3	0.614	10.165	76.0
30	151.53	79.6	0.441	5.256	94.0
35	91.91	29.7	0.268	1.934	119.2
40	36.25	9.0	0.106	0.301	132.4
45	11.76	35.2	0.034	0.032	104.8
50	49.75	49.3	0.145	0.567	81.3
55	76.65	52.9	0.223	1.345	64.4
60	92.26	48.9	0.269	1.948	55.3
65	97.78	39.9	0.285	2.188	54.5
70	94.37	28.6	0.275	2.038	61.5
75	83.51	17.4	0.243	1.596	75.1
80	67.23	8.2	0.196	1.035	93.7
85	46.97	2.1	0.137	0.505	116.1
90	24.00	0.0	0.070	0.132	139.7

Min Height above Gnd

The 100.5 dbuV interfering signal is closest to the ground at 294 meters away from the tower. At the extent of the signal where it most closely approaches the ground, it remains at least 2.9 meters above the ground. In all other directions from the tower the nuisance contour is a greater distance above the ground. There are no multi-story buildings in the immediate vicinity of the tower.

Distance Above Ground



Location of 100.5 dbu contour above ground, versus distance from tower.