

**Engineering Report**  
**Exhibit 13 Figure 3 Page 1**  
**Signal on Ground Report 2<sup>nd</sup> and 3<sup>rd</sup> Adjacent Test**  
**New FM Translator, Franklin Township, NJ**  
**September 2013**

The 54 dbu F(50,50) contour of second adjacent Class B stations WCBS-FM, Paterson, NJ and WNOW-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. Exhibit 13 Figure 2 shows that both the WCBS-FM and WNOW-FM 60 dbu contours encompass the proposed 100 dbu contour.

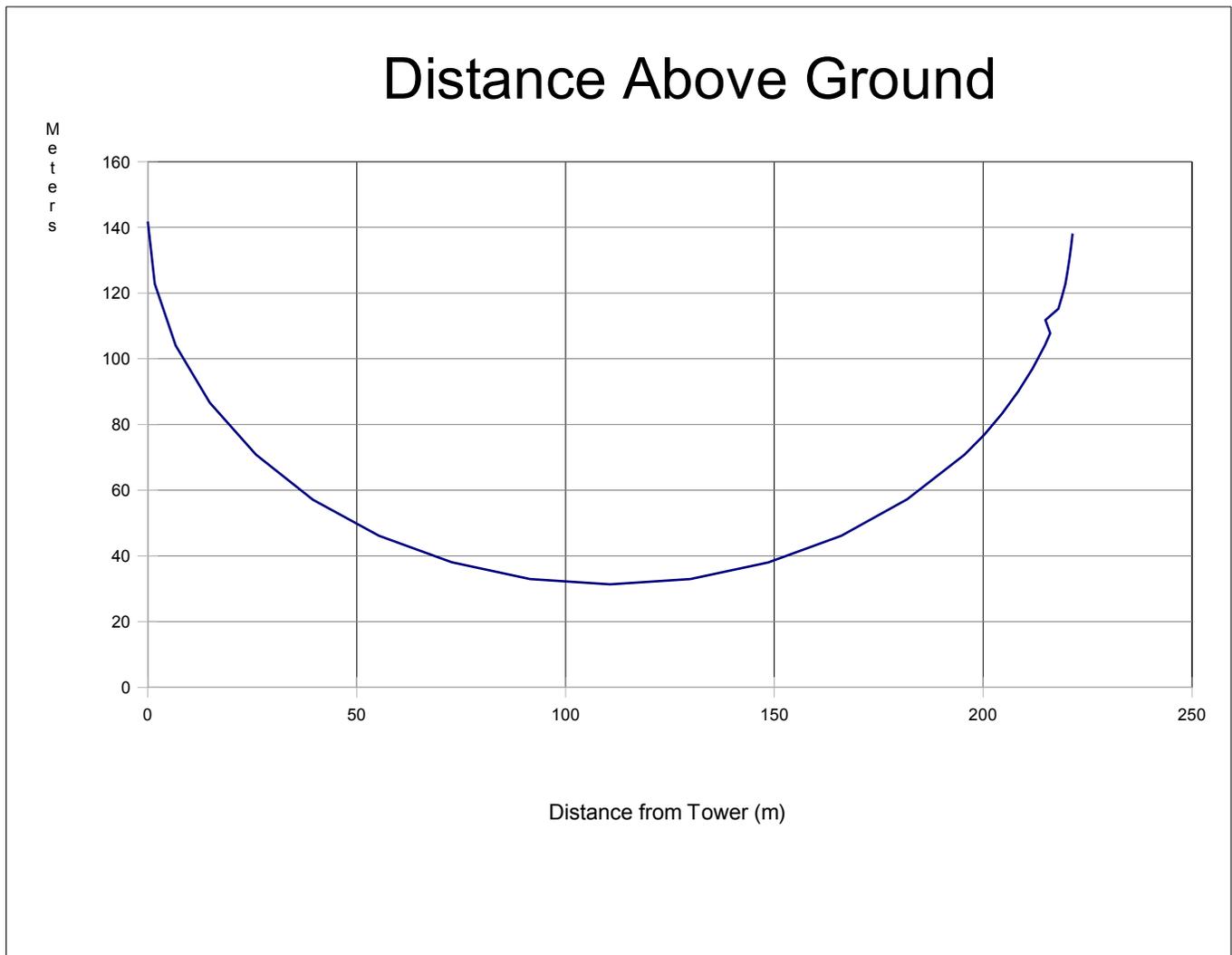
Study for center of Radiation Element Bays      142 M AGL      ERP      10 Watts  
 Antenna      PSIFMR-      1      Spacing      0.81 Wavelength

Distance above Ground Level of Interfering Contour

Depress Angle (Degree)	Slant Distance To 100 dbμV (meters)	Horiz Distance To 100 dbμV (meters)	Relative Field	ERP Watts	100 dbμV Above Gnd (meters)
1	221.40	221.4	1.000	10.000	138.1
2	221.19	221.0	0.999	9.981	134.3
3	220.33	220.7	0.995	9.903	130.4
4	219.05	220.2	0.989	9.789	126.6
5	217.35	219.7	0.982	9.638	122.8
6	215.25	218.9	0.972	9.452	119.0
7	212.52	218.0	0.960	9.214	115.2
8	209.41	214.9	0.946	8.946	111.8
9	203.83	216.0	0.921	8.476	107.8
10	202.05	214.8	0.913	8.329	104.1
12	197.64	211.8	0.893	7.969	97.0
14	187.63	208.4	0.847	7.182	90.0
16	176.27	204.5	0.796	6.339	83.4
18	163.72	200.2	0.739	5.468	76.9
20	150.18	195.6	0.678	4.601	70.8
25	135.85	181.8	0.614	3.765	57.2
30	97.68	166.0	0.441	1.947	46.1
35	59.25	148.5	0.268	0.716	38.0
40	23.37	129.9	0.106	0.111	33.0
45	7.58	110.7	0.034	0.012	31.3
50	32.07	91.5	0.145	0.210	32.9
55	49.41	72.8	0.223	0.498	38.1
60	59.48	55.3	0.269	0.722	46.1
65	63.03	39.6	0.285	0.811	57.1
70	60.83	25.9	0.275	0.755	70.8
75	53.84	14.8	0.243	0.591	86.6
80	43.34	6.7	0.196	0.383	104.1
85	30.28	1.7	0.137	0.187	122.8
90	15.47	0.0	0.070	0.049	141.8

Min Height above Gnd

The 100 dbuV interfering signal is closest to the ground at 110 meters away from the tower. At the extent of the signal where it most closely approaches the ground, it remains at least 31 meters above the ground. There are no multi-story buildings in the immediate vicinity of the tower.



Elevation of nuisance contour (100 dbuV) above ground in vicinity of tower.