

Engineering Report
Exhibit 13 Figure 3 Page 1
Signal on Ground Report 2nd Adjacent Test
New FM Translator, Hammonton, NJ
August 2013

The 54 dbu F(50,50) contours of second adjacent Class B stations WSKQ-FM and WQHT, New York City, NY encompass the 94 dbu F(50,10) proposed contour. Protection of these stations is by the ratio method, as outlined in Exhibit 12.

Study for center of Radiation
 Antenna FMP1-DA

10 M AGL

ERP

110

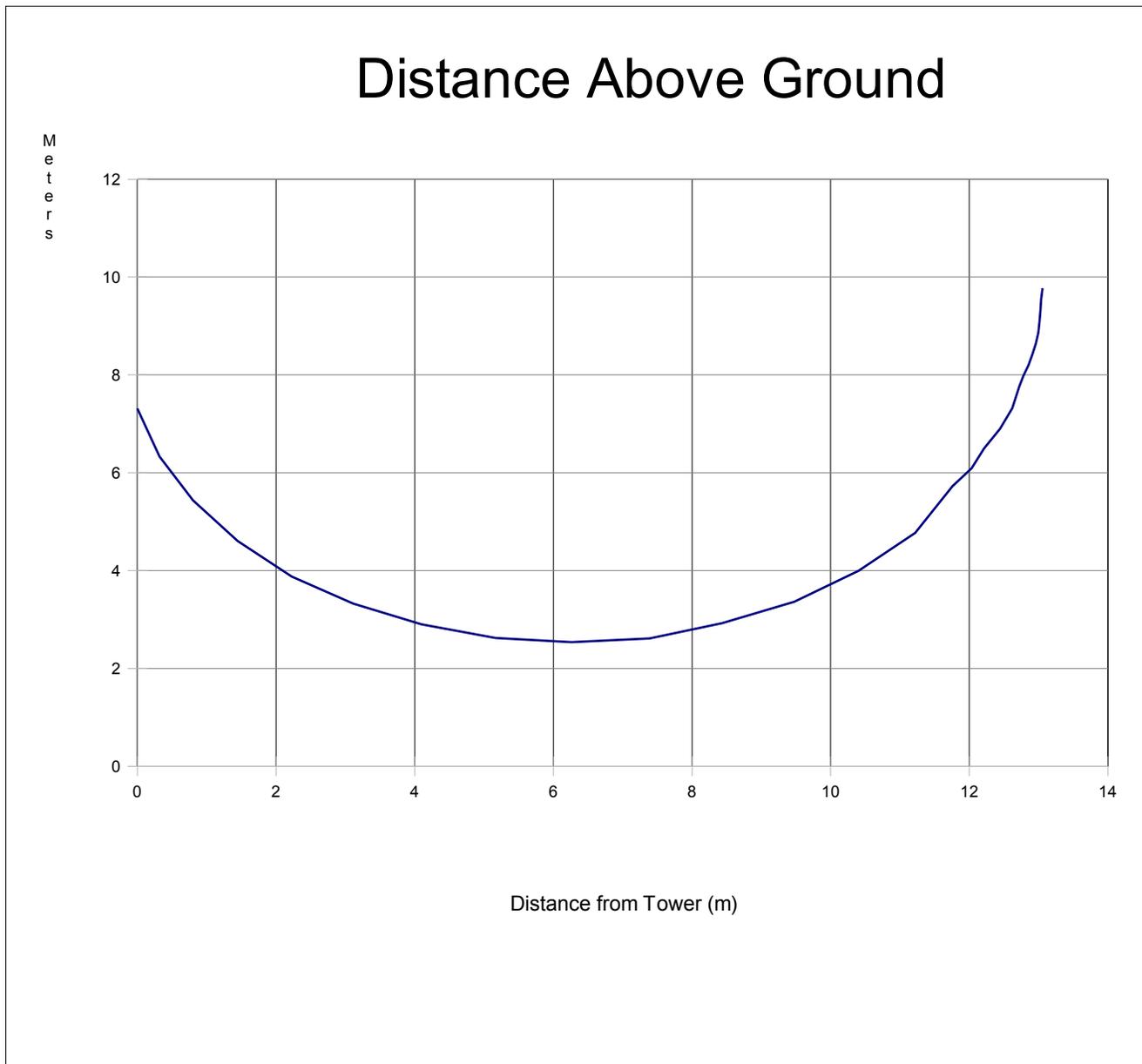
Distance above Ground Level of Interfering Contour

Depression Angle (Degrees)	Slant Distance To 135 db μ V (meters)	Horiz Distance To 135 db μ V (meters)	Relative Field	ERP Watts	135 db μ V Above Gnd (meters)
1	13.06	13.1	1.000	110.000	9.8
2	13.04	13.0	0.999	109.780	9.5
3	13.04	13.0	0.999	109.780	9.3
4	13.04	13.0	0.999	109.780	9.1
5	13.04	13.0	0.999	109.780	8.9
6	13.03	13.0	0.998	109.560	8.6
7	13.01	12.9	0.996	109.122	8.4
8	12.98	12.9	0.994	108.684	8.2
9	12.94	12.8	0.991	108.029	8.0
10	12.91	12.7	0.989	107.593	7.8
12	12.90	12.6	0.988	107.376	7.3
14	12.82	12.4	0.982	106.076	6.9
16	12.71	12.2	0.973	104.140	6.5
18	12.65	12.0	0.969	103.286	6.1
20	12.51	11.8	0.958	100.954	5.7
25	12.38	11.2	0.948	98.857	4.8
30	12.01	10.4	0.920	93.104	4.0
35	11.57	9.5	0.886	86.350	3.4
40	11.01	8.4	0.843	78.171	2.9
45	10.45	7.4	0.800	70.400	2.6
50	9.74	6.3	0.746	61.217	2.5
55	9.01	5.2	0.690	52.371	2.6
60	8.20	4.1	0.628	43.382	2.9
65	7.36	3.1	0.564	34.991	3.3
70	6.52	2.2	0.499	27.390	3.9
75	5.59	1.4	0.428	20.150	4.6
80	4.64	0.8	0.355	13.863	5.4
85	3.68	0.3	0.282	8.748	6.3
90	2.69	0.0	0.206	4.668	7.3

Min Height

The 135 dbuV interfering signal is closest to the floor below the antenna at 6.3 meters horizontally from the antenna. The above chart shows the signals in the direction of the antenna main lobe. The contour remains at least 2.5 meters above the interior space without

allowance for building attenuation. There are no other buildings within the nuisance contour distance. The roof is a restricted area.



Location of 135 dbu contour with respect to the floor below, without allowance for structure attenuation, versus horizontal distance from antenna.