

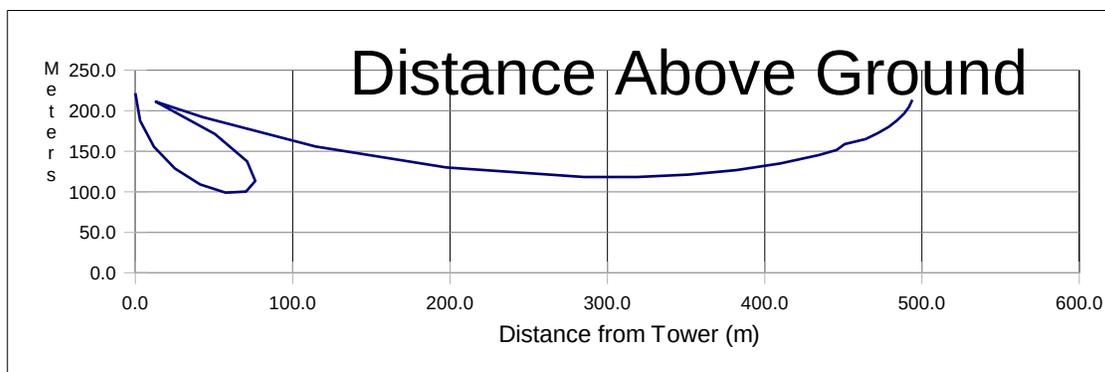
In a letter granting Jersey Shore Broadcasting Corporation's application BPFT-950830TD (September 26, 1996 1800B3-JDB) the FCC stated that the Ratio method is suitable for translator applicants to demonstrate lack of interference for application purposes.

The 54 dB $\mu$ V F(50,50) and the 67 dB $\mu$ V F(50,50) contour of second adjacent Class B stations WRNB, Philadelphia, NJ, and WJBR-FM, Wilmington, DE encompass the 67 dB $\mu$ V F(50,10) proposed contour, as shown on Exhibit 13 Figure 2. For a protection ratio of 40 db the interfering contour would be 107 db $\mu$ V.

Since the distance to this contour is below the minimum distances for the F(50,10) and F(50,50) curves the signal level existing on the ground in the vicinity of the translator was calculated using inverse distance, with an adjustment for ground reflections, as has been accepted by the FCC in recent applications. If a waiver of Section 74.1203(a)(2) is required, one is hereby requested.

Below is a graph and tabulation of these calculations showing the location above ground at which the proposed translator will produce an interfering contour. This table and chart shows that the potentially interfering signal is more than 45 meters from the ground at its closest approach.

Plot of Distance Above Ground for the Nuisance Contour



The proposed 107 dB $\mu$ V potentially interfering signal does not reach the ground or approach it closer than 99 meters. There are no multi-story occupied buildings in the area.

# RADIOTECHNIQUE®

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Engineering Report (amended) Exhibit 13 Figure 3 Page 2

2<sup>nd</sup> Adjacent Protection Calculations

W260BW, Bridgeton NJ

July 2017

Study for center of Radiation                      222 m AGL                      ERP                      250 Watts  
 Element                      Bays                      Spacing  
 Antenna                      PSIFMR-                      2                      0.8                      Wavelength

Distance above Ground Level of Interfering Contour

Depression Angle (Degrees)	Slant Distance To 107 db $\mu$ V (meters)	Horiz Distance To 107 db $\mu$ V (meters)	Relative Field	ERP Watts	107 db $\mu$ V Above Gnd (meters)
1	494.00	493.9	0.999	249.519	213.4
2	492.08	491.8	0.995	247.586	204.8
3	489.23	488.6	0.989	244.718	196.4
4	485.44	484.3	0.982	240.942	188.1
5	480.73	478.9	0.972	236.294	180.1
6	474.65	472.0	0.960	230.350	172.4
7	467.69	464.2	0.946	223.649	165.0
8	455.25	450.8	0.921	211.903	158.6
9	451.27	445.7	0.913	208.218	151.4
10	441.41	434.7	0.893	199.217	145.4
12	419.07	409.9	0.847	179.560	134.9
14	393.68	382.0	0.796	158.467	126.8
16	365.66	351.5	0.739	136.708	121.2
18	335.41	319.0	0.678	115.029	118.4
20	303.40	285.1	0.614	94.121	118.2
25	218.17	197.7	0.441	48.667	129.8
30	132.33	114.6	0.268	17.904	155.8
35	52.19	42.8	0.106	2.785	192.1
40	16.93	13.0	0.034	0.293	211.1
45	71.63	50.7	0.145	5.246	171.3
50	110.36	70.9	0.223	12.453	137.5
55	132.83	76.2	0.269	18.041	113.2
60	140.78	70.4	0.285	20.263	100.1
65	135.86	57.4	0.275	18.874	98.9
70	120.24	41.1	0.243	14.782	109.0
75	96.79	25.1	0.196	9.579	128.5
80	67.63	11.7	0.137	4.676	155.4
85	34.56	3.0	0.070	1.221	187.6
90	0.40	0.0	0.001	0.000	221.6

Min Height above Gnd