

SECOND ADJACENT INTERFERENCE EXHIBIT FOR QUEENS, NY

The proposed facility is fully spaced to all relevant stations except WWPR and WQXR. The instant application seeks a waiver of the second adjacent minimum distance separation requirement of 47 C.F.R. Section 73.807. The proposed facility will not interfere with WWPR or WQXR.

With respect to WWPR, as shown by the tabular and graphic analysis provided below using V-Soft's X-Field program, no population exists within the predicted region of interference with WCPE because the region does not extend far enough to reach any populated areas or roads and/or the region exists above ground sufficiently to not interfere with any populated areas, roads or buildings.

NEW Queens, NY

74.1204(d) Showing

Translator or LPFM Maximum Licensed ERP = 0.017

Translator or LPFM Antenna Height AG = 40 Meters

NEW Antenna Model = 6812B 3 3-4

Protected Station's Contour = 77.67779 dBu

LPFM's full Interference contour 117.67779

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

LPFM ERP on the horizon at Review Azimuth = 0.017 kW

Distance between stations = 21.2 km

Protected Station= WWPR-F, 6 kW, 429 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0170	037.7864	037.7864	040.000
01.00	0.998	1.0	0.0169	037.7108	037.7050	039.342
02.00	0.99	1.0	0.0167	037.4085	037.3857	038.694
03.00	0.978	1.0	0.0163	036.9551	036.9044	038.066
04.00	0.962	1.0	0.0157	036.3505	036.2619	037.464
05.00	0.941	1.0	0.0151	035.5570	035.4217	036.901
06.00	0.916	1.0	0.0143	034.6123	034.4227	036.382
07.00	0.886	1.0	0.0133	033.4787	033.2292	035.920
08.00	0.853	1.0	0.0124	032.2318	031.9181	035.514
09.00	0.817	1.0	0.0113	030.8714	030.4914	035.171
10.00	0.777	1.0	0.0103	029.3600	028.9140	034.902

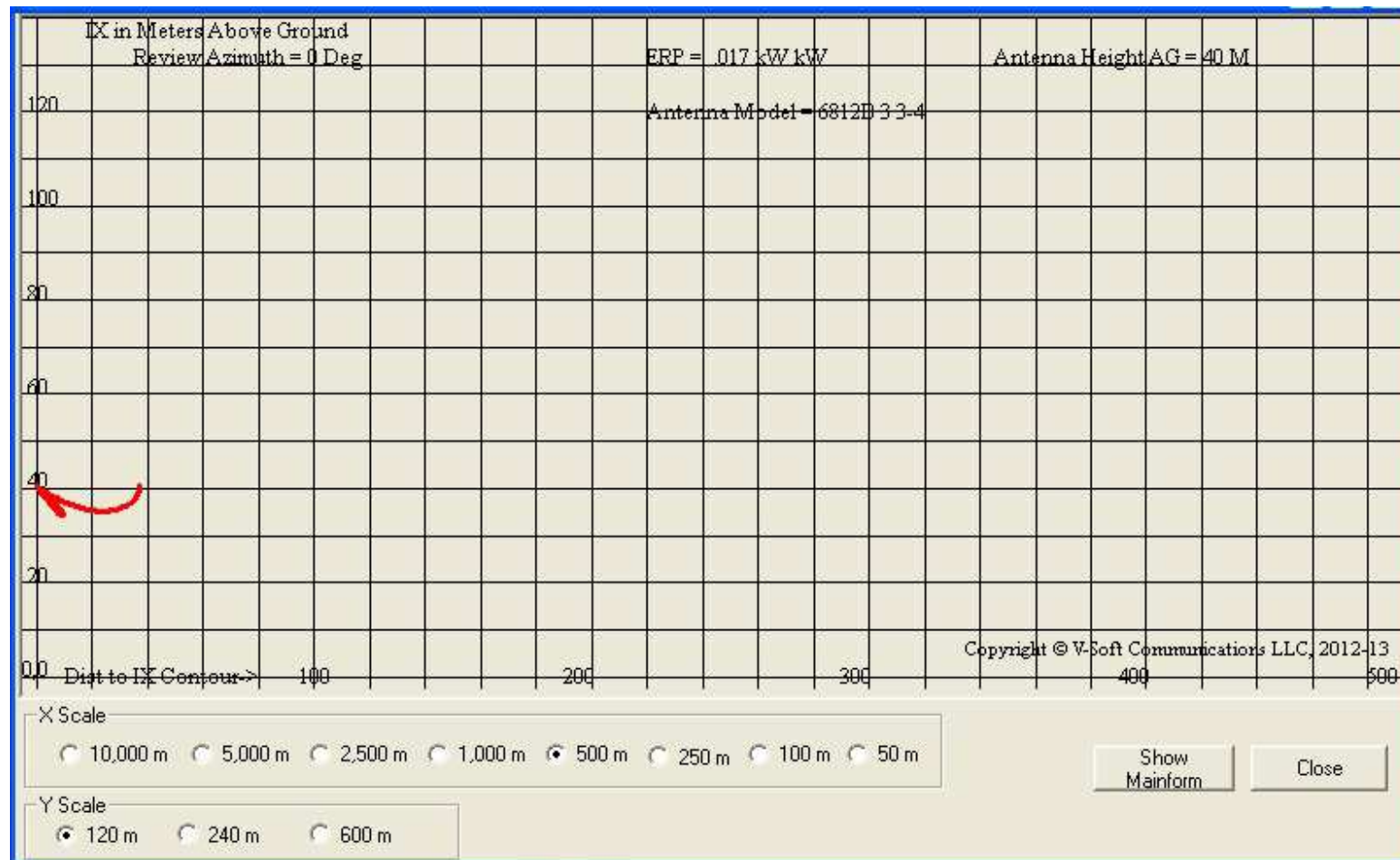
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11.00	0.734	1.0	0.0092	027.7352	027.2256	034.708
12.00	0.689	1.0	0.0081	026.0348	025.4659	034.587
13.00	0.642	1.0	0.0070	024.2588	023.6371	034.543
14.00	0.593	1.0	0.0060	022.4073	021.7417	034.579
15.00	0.543	1.0	0.0050	020.5180	019.8189	034.690
16.00	0.492	1.0	0.0041	018.5909	017.8707	034.876
17.00	0.441	1.0	0.0033	016.6638	015.9357	035.128
18.00	0.389	1.0	0.0026	014.6989	013.9795	035.458
19.00	0.338	1.0	0.0019	012.7718	012.0760	035.842
20.00	0.287	1.0	0.0014	010.8447	010.1907	036.291
21.00	0.237	1.0	0.0010	008.9554	008.3606	036.791
22.00	0.189	1.0	0.0006	007.1416	006.6216	037.325
23.00	0.142	1.0	0.0003	005.3657	004.9391	037.903
24.00	0.097	1.0	0.0002	003.6653	003.3484	038.509
25.00	0.054	1.0	0.0000	002.0405	001.8493	039.138
26.00	0.014	1.0	0.0000	000.5290	000.4755	039.768
27.00	0.024	1.0	0.0000	000.9069	000.8080	039.588
28.00	0.06	1.0	0.0001	002.2672	002.0018	038.936
29.00	0.092	1.0	0.0001	003.4763	003.0405	038.315
30.00	0.122	1.0	0.0003	004.6099	003.9923	037.695
31.00	0.148	1.0	0.0004	005.5924	004.7936	037.120
32.00	0.172	1.0	0.0005	006.4993	005.5117	036.556
33.00	0.192	1.0	0.0006	007.2550	006.0845	036.049
34.00	0.209	1.0	0.0007	007.8973	006.5472	035.584
35.00	0.224	1.0	0.0009	008.4641	006.9334	035.145
36.00	0.236	1.0	0.0009	008.9176	007.2145	034.758
37.00	0.244	1.0	0.0010	009.2199	007.3633	034.451
38.00	0.25	1.0	0.0011	009.4466	007.4440	034.184
39.00	0.254	1.0	0.0011	009.5977	007.4588	033.960
40.00	0.255	1.0	0.0011	009.6355	007.3812	033.806
41.00	0.254	1.0	0.0011	009.5977	007.2435	033.703
42.00	0.251	1.0	0.0011	009.4844	007.0483	033.654
43.00	0.245	1.0	0.0010	009.2577	006.7706	033.686
44.00	0.238	1.0	0.0010	008.9932	006.4691	033.753
45.00	0.23	1.0	0.0009	008.6909	006.1454	033.855
46.00	0.22	1.0	0.0008	008.3130	005.7747	034.020
47.00	0.209	1.0	0.0007	007.8973	005.3860	034.224
48.00	0.197	1.0	0.0007	007.4439	004.9809	034.468
49.00	0.184	1.0	0.0006	006.9527	004.5614	034.753
50.00	0.17	1.0	0.0005	006.4237	004.1291	035.079
51.00	0.156	1.0	0.0004	005.8947	003.7096	035.419

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52.00	0.142	1.0	0.0003	005.3657	003.3034	035.772
53.00	0.127	1.0	0.0003	004.7989	002.8880	036.167
54.00	0.112	1.0	0.0002	004.2321	002.4875	036.576
55.00	0.098	1.0	0.0002	003.7031	002.1240	036.967
56.00	0.083	1.0	0.0001	003.1363	001.7538	037.400
57.00	0.069	1.0	0.0001	002.6073	001.4200	037.813
58.00	0.055	1.0	0.0001	002.0782	001.1013	038.238
59.00	0.042	1.0	0.0000	001.5870	000.8174	038.640
60.00	0.029	1.0	0.0000	001.0958	000.5479	039.051
61.00	0.018	1.0	0.0000	000.6802	000.3297	039.405
62.00	0.006	1.0	0.0000	000.2267	000.1064	039.800
63.00	0.004	1.0	0.0000	000.1511	000.0686	039.865
64.00	0.014	1.0	0.0000	000.5290	000.2319	039.525
65.00	0.023	1.0	0.0000	000.8691	000.3673	039.212
66.00	0.031	1.0	0.0000	001.1714	000.4764	038.930
67.00	0.038	1.0	0.0000	001.4359	000.5610	038.678
68.00	0.044	1.0	0.0000	001.6626	000.6228	038.458
69.00	0.049	1.0	0.0000	001.8515	000.6635	038.271
70.00	0.054	1.0	0.0000	002.0405	000.6979	038.083
71.00	0.057	1.0	0.0001	002.1538	000.7012	037.964
72.00	0.06	1.0	0.0001	002.2672	000.7006	037.844
73.00	0.062	1.0	0.0001	002.3428	000.6850	037.760
74.00	0.063	1.0	0.0001	002.3805	000.6562	037.712
75.00	0.063	1.0	0.0001	002.3805	000.6161	037.701
76.00	0.063	1.0	0.0001	002.3805	000.5759	037.690
77.00	0.061	1.0	0.0001	002.3050	000.5185	037.754
78.00	0.059	1.0	0.0001	002.2294	000.4635	037.819
79.00	0.057	1.0	0.0001	002.1538	000.4110	037.886
80.00	0.054	1.0	0.0000	002.0405	000.3543	037.991
81.00	0.05	1.0	0.0000	001.8893	000.2956	038.134
82.00	0.046	1.0	0.0000	001.7382	000.2419	038.279
83.00	0.042	1.0	0.0000	001.5870	000.1934	038.425
84.00	0.037	1.0	0.0000	001.3981	000.1461	038.610
85.00	0.031	1.0	0.0000	001.1714	000.1021	038.833
86.00	0.026	1.0	0.0000	000.9824	000.0685	039.020
87.00	0.02	1.0	0.0000	000.7557	000.0396	039.245
88.00	0.013	1.0	0.0000	000.4912	000.0171	039.509
89.00	0.007	1.0	0.0000	000.2645	000.0046	039.736
90.00	0.001	1.0	0.0000	000.0378	000.0000	039.962

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With respect to WQXR, as shown by the tabular and graphic analysis provided below using V-Soft's X-Field program, no population exists within the predicted region of interference with WCPE because the region does not extend far enough to reach any populated areas or roads and/or the region exists above ground sufficiently to not interfere with any populated areas, roads or buildings.

NEW Queens, NY

74.1204(d) Showing

Translator or LPFM Maximum Licensed ERP = 0.017

Translator or LPFM Antenna Height AG = 40 Meters

NEW Antenna Model = 6812B 3 3-4

Protected Station's Contour = 67.76952 dBu

LPFM's full Interference contour 107.76952

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

LPFM ERP on the horizon at Review Azimuth = 0.017 kW

Distance between stations = 21.2 km

Protected Station= WQXR-F, .61 kW, 430 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0170	118.2357	118.2357	040.000
01.00	0.998	1.0	0.0169	117.9992	117.9812	037.941
02.00	0.99	1.0	0.0167	117.0533	116.9820	035.915
03.00	0.978	1.0	0.0163	115.6345	115.4760	033.948
04.00	0.962	1.0	0.0157	113.7427	113.4656	032.066
05.00	0.941	1.0	0.0151	111.2597	110.8364	030.303
06.00	0.916	1.0	0.0143	108.3039	107.7106	028.679
07.00	0.886	1.0	0.0133	104.7568	103.9759	027.233
08.00	0.853	1.0	0.0124	100.8550	099.8735	025.964
09.00	0.817	1.0	0.0113	096.5985	095.4092	024.889
10.00	0.777	1.0	0.0103	091.8691	090.4734	024.047
11.00	0.734	1.0	0.0092	086.7850	085.1905	023.441
12.00	0.689	1.0	0.0081	081.4644	079.6842	023.063
13.00	0.642	1.0	0.0070	075.9073	073.9618	022.925
14.00	0.593	1.0	0.0060	070.1137	068.0311	023.038
15.00	0.543	1.0	0.0050	064.2020	062.0143	023.383

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16.00	0.492	1.0	0.0041	058.1719	055.9185	023.966
17.00	0.441	1.0	0.0033	052.1419	049.8636	024.755
18.00	0.389	1.0	0.0026	045.9937	043.7426	025.787
19.00	0.338	1.0	0.0019	039.9637	037.7864	026.989
20.00	0.287	1.0	0.0014	033.9336	031.8872	028.394
21.00	0.237	1.0	0.0010	028.0219	026.1607	029.958
22.00	0.189	1.0	0.0006	022.3465	020.7193	031.629
23.00	0.142	1.0	0.0003	016.7895	015.4548	033.440
24.00	0.097	1.0	0.0002	011.4689	010.4773	035.335
25.00	0.054	1.0	0.0000	006.3847	005.7865	037.302
26.00	0.014	1.0	0.0000	001.6553	001.4878	039.274
27.00	0.024	1.0	0.0000	002.8377	002.5284	038.712
28.00	0.06	1.0	0.0001	007.0941	006.2638	036.670
29.00	0.092	1.0	0.0001	010.8777	009.5138	034.726
30.00	0.122	1.0	0.0003	014.4248	012.4922	032.788
31.00	0.148	1.0	0.0004	017.4989	014.9995	030.987
32.00	0.172	1.0	0.0005	020.3365	017.2464	029.223
33.00	0.192	1.0	0.0006	022.7012	019.0389	027.636
34.00	0.209	1.0	0.0007	024.7113	020.4866	026.182
35.00	0.224	1.0	0.0009	026.4848	021.6951	024.809
36.00	0.236	1.0	0.0009	027.9036	022.5745	023.599
37.00	0.244	1.0	0.0010	028.8495	023.0402	022.638
38.00	0.25	1.0	0.0011	029.5589	023.2927	021.802
39.00	0.254	1.0	0.0011	030.0319	023.3391	021.100
40.00	0.255	1.0	0.0011	030.1501	023.0963	020.620
41.00	0.254	1.0	0.0011	030.0319	022.6653	020.297
42.00	0.251	1.0	0.0011	029.6771	022.0544	020.142
43.00	0.245	1.0	0.0010	028.9677	021.1857	020.244
44.00	0.238	1.0	0.0010	028.1401	020.2423	020.452
45.00	0.23	1.0	0.0009	027.1942	019.2292	020.771
46.00	0.22	1.0	0.0008	026.0118	018.0693	021.289
47.00	0.209	1.0	0.0007	024.7113	016.8530	021.927
48.00	0.197	1.0	0.0007	023.2924	015.5857	022.690
49.00	0.184	1.0	0.0006	021.7554	014.2728	023.581
50.00	0.17	1.0	0.0005	020.1001	012.9201	024.602
51.00	0.156	1.0	0.0004	018.4448	011.6077	025.666
52.00	0.142	1.0	0.0003	016.7895	010.3366	026.770
53.00	0.127	1.0	0.0003	015.0159	009.0368	028.008
54.00	0.112	1.0	0.0002	013.2424	007.7837	029.287
55.00	0.098	1.0	0.0002	011.5871	006.6461	030.508
56.00	0.083	1.0	0.0001	009.8136	005.4877	031.864

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57.00	0.069	1.0	0.0001	008.1583	004.4433	033.158
58.00	0.055	1.0	0.0001	006.5030	003.4460	034.485
59.00	0.042	1.0	0.0000	004.9659	002.5576	035.743
60.00	0.029	1.0	0.0000	003.4288	001.7144	037.031
61.00	0.018	1.0	0.0000	002.1282	001.0318	038.139
62.00	0.006	1.0	0.0000	000.7094	000.3330	039.374
63.00	0.004	1.0	0.0000	000.4729	000.2147	039.579
64.00	0.014	1.0	0.0000	001.6553	000.7256	038.512
65.00	0.023	1.0	0.0000	002.7194	001.1493	037.535
66.00	0.031	1.0	0.0000	003.6653	001.4908	036.652
67.00	0.038	1.0	0.0000	004.4930	001.7555	035.864
68.00	0.044	1.0	0.0000	005.2024	001.9488	035.176
69.00	0.049	1.0	0.0000	005.7935	002.0762	034.591
70.00	0.054	1.0	0.0000	006.3847	002.1837	034.000
71.00	0.057	1.0	0.0001	006.7394	002.1941	033.628
72.00	0.06	1.0	0.0001	007.0941	002.1922	033.253
73.00	0.062	1.0	0.0001	007.3306	002.1433	032.990
74.00	0.063	1.0	0.0001	007.4488	002.0532	032.840
75.00	0.063	1.0	0.0001	007.4488	001.9279	032.805
76.00	0.063	1.0	0.0001	007.4488	001.8020	032.772
77.00	0.061	1.0	0.0001	007.2124	001.6224	032.972
78.00	0.059	1.0	0.0001	006.9759	001.4504	033.177
79.00	0.057	1.0	0.0001	006.7394	001.2859	033.384
80.00	0.054	1.0	0.0000	006.3847	001.1087	033.712
81.00	0.05	1.0	0.0000	005.9118	000.9248	034.161
82.00	0.046	1.0	0.0000	005.4388	000.7569	034.614
83.00	0.042	1.0	0.0000	004.9659	000.6052	035.071
84.00	0.037	1.0	0.0000	004.3747	000.4573	035.649
85.00	0.031	1.0	0.0000	003.6653	000.3195	036.349
86.00	0.026	1.0	0.0000	003.0741	000.2144	036.933
87.00	0.02	1.0	0.0000	002.3647	000.1238	037.639
88.00	0.013	1.0	0.0000	001.5371	000.0536	038.464
89.00	0.007	1.0	0.0000	000.8276	000.0144	039.172
90.00	0.001	1.0	0.0000	000.1182	000.0000	039.882

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