

## INTERFERENCE EXHIBIT FOR COLUMBIA, SC

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

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 because the region does not extend far enough to reach any populated areas and/or the region exists above ground sufficiently to not interfere with any populated areas. The closest the interfering contour comes to the ground is 25.8m.

LPFM COLUMBIA, SC

74.1204(d) Showing

Translator or LPFM Maximum Licensed ERP = 0.1

Translator or LPFM Antenna Height AG = 30 Meters

LPFM Antenna Model = SHPX1F

Protected Station's Contour = 86.40565 dBu

Translator's or LPFM's full Interference contour 126.40565

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

Translator/LPFM ERP on the horizon at Review Azimuth = 0.1 kW

Distance between stations = 24.2 km

Protected Station= WWDM, 100 kW, 471 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	0.1000	033.5519	033.5519	030.000
01.00	1.0	1.0	0.1000	033.5519	033.5468	029.414
02.00	0.999	1.0	0.0998	033.5184	033.4980	028.830
03.00	0.998	1.0	0.0996	033.4848	033.4389	028.248
04.00	0.996	1.0	0.0992	033.4177	033.3363	027.669
05.00	0.993	1.0	0.0986	033.3171	033.1903	027.096
06.00	0.99	1.0	0.0980	033.2164	033.0344	026.528
07.00	0.987	1.0	0.0974	033.1158	032.8689	025.964
08.00	0.983	1.0	0.0966	032.9815	032.6606	025.410
09.00	0.979	1.0	0.0958	032.8473	032.4429	024.862
10.00	0.974	1.0	0.0949	032.6796	032.1831	024.325

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11.00	0.968	1.0	0.0937	032.4783	031.8816	023.803
12.00	0.962	1.0	0.0925	032.2770	031.5716	023.289
13.00	0.956	1.0	0.0914	032.0756	031.2535	022.785
14.00	0.949	1.0	0.0901	031.8408	030.8950	022.297
15.00	0.941	1.0	0.0885	031.5724	030.4966	021.828
16.00	0.933	1.0	0.0870	031.3040	030.0913	021.371
17.00	0.925	1.0	0.0856	031.0355	029.6794	020.926
18.00	0.916	1.0	0.0839	030.7336	029.2294	020.503
19.00	0.907	1.0	0.0823	030.4316	028.7736	020.092
20.00	0.897	1.0	0.0805	030.0961	028.2811	019.707
21.00	0.887	1.0	0.0787	029.7606	027.7839	019.335
22.00	0.877	1.0	0.0769	029.4250	027.2824	018.977
23.00	0.866	1.0	0.0750	029.0560	026.7462	018.647
24.00	0.855	1.0	0.0731	028.6869	026.2068	018.332
25.00	0.843	1.0	0.0711	028.2843	025.6343	018.047
26.00	0.831	1.0	0.0691	027.8817	025.0599	017.777
27.00	0.819	1.0	0.0671	027.4790	024.4840	017.525
28.00	0.806	1.0	0.0650	027.0429	023.8774	017.304
29.00	0.793	1.0	0.0629	026.6067	023.2707	017.101
30.00	0.78	1.0	0.0608	026.1705	022.6643	016.915
31.00	0.766	1.0	0.0587	025.7008	022.0299	016.763
32.00	0.752	1.0	0.0566	025.2311	021.3971	016.630
33.00	0.738	1.0	0.0545	024.7613	020.7666	016.514
34.00	0.723	1.0	0.0523	024.2580	020.1108	016.435
35.00	0.709	1.0	0.0503	023.7883	019.4862	016.356
36.00	0.694	1.0	0.0482	023.2850	018.8380	016.313
37.00	0.679	1.0	0.0461	022.7818	018.1943	016.290
38.00	0.664	1.0	0.0441	022.2785	017.5557	016.284
39.00	0.648	1.0	0.0420	021.7417	016.8964	016.318
40.00	0.633	1.0	0.0401	021.2384	016.2695	016.348
41.00	0.617	1.0	0.0381	020.7015	015.6237	016.419
42.00	0.601	1.0	0.0361	020.1647	014.9853	016.507
43.00	0.586	1.0	0.0343	019.6614	014.3795	016.591
44.00	0.57	1.0	0.0325	019.1246	013.7571	016.715
45.00	0.554	1.0	0.0307	018.5878	013.1435	016.856
46.00	0.537	1.0	0.0288	018.0174	012.5159	017.039
47.00	0.521	1.0	0.0271	017.4806	011.9217	017.216
48.00	0.505	1.0	0.0255	016.9437	011.3376	017.408
49.00	0.489	1.0	0.0239	016.4069	010.7639	017.618
50.00	0.473	1.0	0.0224	015.8701	010.2011	017.843
51.00	0.457	1.0	0.0209	015.3332	009.6495	018.084

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52.00	0.441	1.0	0.0194	014.7964	009.1096	018.340
53.00	0.425	1.0	0.0181	014.2596	008.5816	018.612
54.00	0.409	1.0	0.0167	013.7227	008.0660	018.898
55.00	0.394	1.0	0.0155	013.2195	007.5824	019.171
56.00	0.378	1.0	0.0143	012.6826	007.0920	019.486
57.00	0.362	1.0	0.0131	012.1458	006.6151	019.814
58.00	0.347	1.0	0.0120	011.6425	006.1696	020.127
59.00	0.332	1.0	0.0110	011.1392	005.7371	020.452
60.00	0.317	1.0	0.0100	010.6360	005.3180	020.789
61.00	0.302	1.0	0.0091	010.1327	004.9124	021.138
62.00	0.288	1.0	0.0083	009.6630	004.5365	021.468
63.00	0.273	1.0	0.0075	009.1597	004.1584	021.839
64.00	0.259	1.0	0.0067	008.6899	003.8094	022.190
65.00	0.245	1.0	0.0060	008.2202	003.4740	022.550
66.00	0.232	1.0	0.0054	007.7840	003.1661	022.889
67.00	0.219	1.0	0.0048	007.3479	002.8710	023.236
68.00	0.206	1.0	0.0042	006.9117	002.5892	023.592
69.00	0.193	1.0	0.0037	006.4755	002.3206	023.955
70.00	0.181	1.0	0.0033	006.0729	002.0771	024.293
71.00	0.169	1.0	0.0029	005.6703	001.8461	024.639
72.00	0.157	1.0	0.0025	005.2677	001.6278	024.990
73.00	0.146	1.0	0.0021	004.8986	001.4322	025.315
74.00	0.135	1.0	0.0018	004.5295	001.2485	025.646
75.00	0.124	1.0	0.0015	004.1604	001.0768	025.981
76.00	0.114	1.0	0.0013	003.8249	000.9253	026.289
77.00	0.104	1.0	0.0011	003.4894	000.7849	026.600
78.00	0.095	1.0	0.0009	003.1874	000.6627	026.882
79.00	0.086	1.0	0.0007	002.8855	000.5506	027.168
80.00	0.077	1.0	0.0006	002.5835	000.4486	027.456
81.00	0.069	1.0	0.0005	002.3151	000.3622	027.713
82.00	0.061	1.0	0.0004	002.0467	000.2848	027.973
83.00	0.054	1.0	0.0003	001.8118	000.2208	028.202
84.00	0.047	1.0	0.0002	001.5769	000.1648	028.432
85.00	0.041	1.0	0.0002	001.3756	000.1199	028.630
86.00	0.035	1.0	0.0001	001.1743	000.0819	028.829
87.00	0.029	1.0	0.0001	000.9730	000.0509	029.028
88.00	0.024	1.0	0.0001	000.8052	000.0281	029.195
89.00	0.02	1.0	0.0000	000.6710	000.0117	029.329
90.00	0.016	1.0	0.0000	000.5368	000.0000	029.463

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