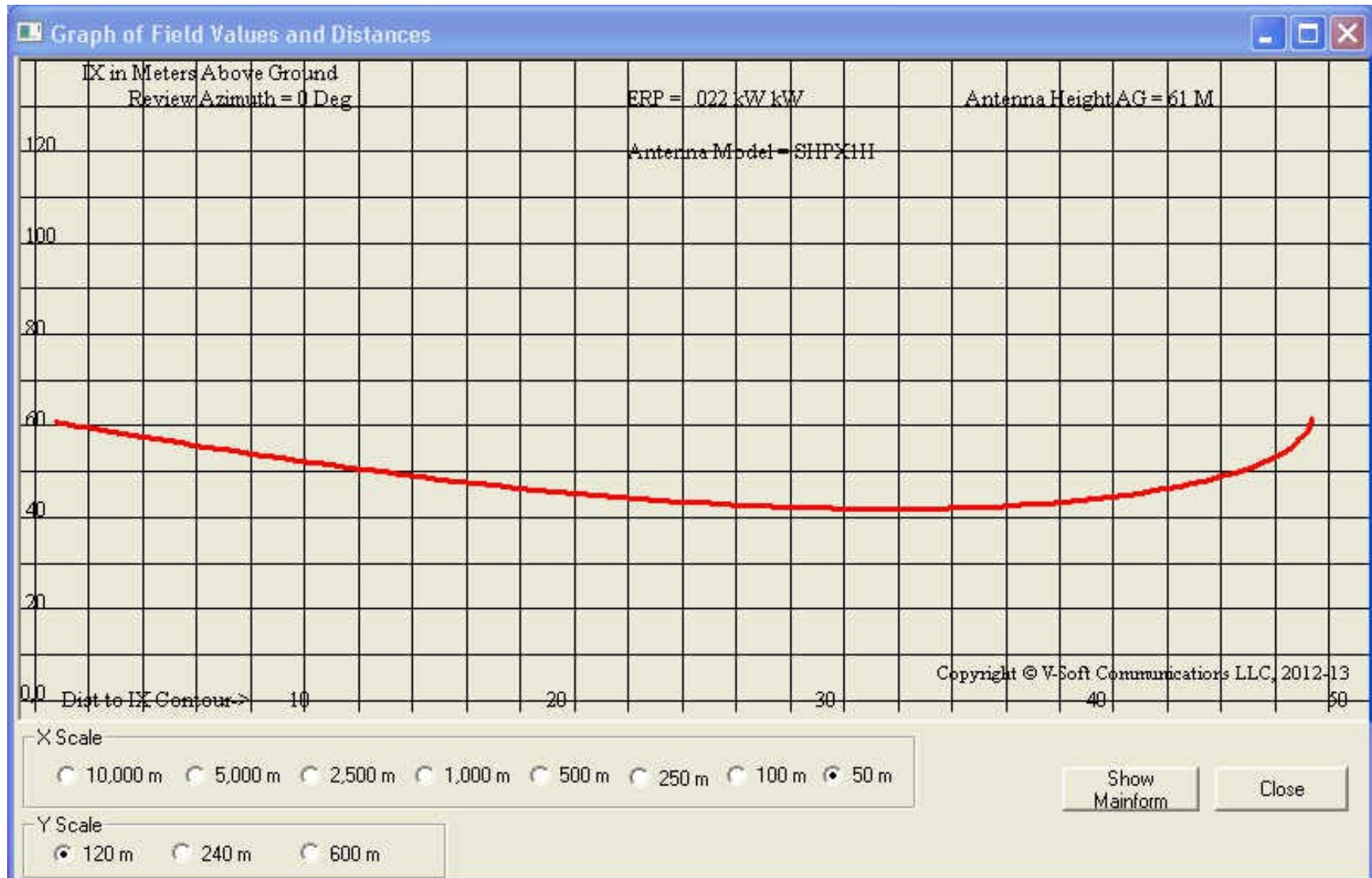


Technical Exhibit
DULUTH, GA 251L

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 any authorized radio service, specifically WSB-FM

Below is a graphic and tabular output showing the interfering 117 dB F(50,10) contour of the proposed facility, with respect to WSB-FM, which does not reach ground level. There are no other tall buildings within this contour.



LPFM DULUTH, GA

Translator 74.1204(d) Showing

Translator Maximum Licensed ERP = 0.022

Translator Antenna Height AG = 61 Meters

LPFM Antenna Model = SHPX1H

Protected Station's Contour = 76.66873 dBu

Translator's full Interference contour 116.66873

Review Azimuth = 0 Degrees True

Horizontal Relative Field at Review Azimuth = 1.000

Horizontal Translator ERP at Review Azimuth = 0.022 kW

Distance between stations = 36.9

Protected Station= WSB-FM, 100 kW, 594 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw) Contour Dep.	Dist to IX Along Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0220	048.2808	048.2808	061.000
01.00	1.0	1.0	0.0220	048.2808	048.2735	060.157
02.00	0.999	1.0	0.0220	048.2326	048.2032	059.317
03.00	0.998	1.0	0.0219	048.1843	048.1182	058.478
04.00	0.996	1.0	0.0218	048.0877	047.9706	057.646
05.00	0.993	1.0	0.0217	047.9429	047.7604	056.822
06.00	0.99	1.0	0.0216	047.7980	047.5362	056.004
07.00	0.987	1.0	0.0214	047.6532	047.2980	055.193
08.00	0.983	1.0	0.0213	047.4601	046.9982	054.395
09.00	0.979	1.0	0.0211	047.2669	046.6850	053.606
10.00	0.974	1.0	0.0209	047.0255	046.3111	052.834
11.00	0.968	1.0	0.0206	046.7359	045.8772	052.082
12.00	0.962	1.0	0.0204	046.4462	045.4312	051.343
13.00	0.956	1.0	0.0201	046.1565	044.9735	050.617
14.00	0.949	1.0	0.0198	045.8185	044.4575	049.915
15.00	0.941	1.0	0.0195	045.4323	043.8842	049.241
16.00	0.933	1.0	0.0192	045.0460	043.3010	048.584
17.00	0.925	1.0	0.0188	044.6598	042.7084	047.943

18.00	0.916	1.0	0.0185	044.2253	042.0607	047.334
19.00	0.907	1.0	0.0181	043.7907	041.4049	046.743
20.00	0.897	1.0	0.0177	043.3079	040.6961	046.188
21.00	0.887	1.0	0.0173	042.8251	039.9807	045.653
22.00	0.877	1.0	0.0169	042.3423	039.2591	045.138
23.00	0.866	1.0	0.0165	041.8112	038.4874	044.663
24.00	0.855	1.0	0.0161	041.2801	037.7113	044.210
25.00	0.843	1.0	0.0156	040.7008	036.8874	043.799
26.00	0.831	1.0	0.0152	040.1214	036.0609	043.412
27.00	0.819	1.0	0.0148	039.5420	035.2322	043.048
28.00	0.806	1.0	0.0143	038.9144	034.3593	042.731
29.00	0.793	1.0	0.0138	038.2867	033.4863	042.438
30.00	0.78	1.0	0.0134	037.6591	032.6137	042.170
31.00	0.766	1.0	0.0129	036.9831	031.7007	041.952
32.00	0.752	1.0	0.0124	036.3072	030.7902	041.760
33.00	0.738	1.0	0.0120	035.6313	029.8829	041.594
34.00	0.723	1.0	0.0115	034.9070	028.9393	041.480
35.00	0.709	1.0	0.0111	034.2311	028.0405	041.366
36.00	0.694	1.0	0.0106	033.5069	027.1077	041.305
37.00	0.679	1.0	0.0101	032.7827	026.1814	041.271
38.00	0.664	1.0	0.0097	032.0585	025.2624	041.263
39.00	0.648	1.0	0.0092	031.2860	024.3138	041.311
40.00	0.633	1.0	0.0088	030.5618	023.4117	041.355
41.00	0.617	1.0	0.0084	029.7893	022.4823	041.456
42.00	0.601	1.0	0.0079	029.0168	021.5637	041.584
43.00	0.586	1.0	0.0076	028.2926	020.6919	041.705
44.00	0.57	1.0	0.0071	027.5201	019.7963	041.883
45.00	0.554	1.0	0.0068	026.7476	018.9134	042.087
46.00	0.537	1.0	0.0063	025.9268	018.0103	042.350
47.00	0.521	1.0	0.0060	025.1543	017.1552	042.603
48.00	0.505	1.0	0.0056	024.3818	016.3146	042.881
49.00	0.489	1.0	0.0053	023.6093	015.4891	043.182
50.00	0.473	1.0	0.0049	022.8368	014.6792	043.506
51.00	0.457	1.0	0.0046	022.0643	013.8855	043.853
52.00	0.441	1.0	0.0043	021.2919	013.1086	044.222
53.00	0.425	1.0	0.0040	020.5194	012.3489	044.613
54.00	0.409	1.0	0.0037	019.7469	011.6069	045.024
55.00	0.394	1.0	0.0034	019.0227	010.9109	045.418
56.00	0.378	1.0	0.0031	018.2502	010.2054	045.870

57.00	0.362	1.0	0.0029	017.4777	009.5190	046.342
58.00	0.347	1.0	0.0026	016.7535	008.8780	046.792
59.00	0.332	1.0	0.0024	016.0292	008.2557	047.260
60.00	0.317	1.0	0.0022	015.3050	007.6525	047.745
61.00	0.302	1.0	0.0020	014.5808	007.0689	048.247
62.00	0.288	1.0	0.0018	013.9049	006.5279	048.723
63.00	0.273	1.0	0.0016	013.1807	005.9839	049.256
64.00	0.259	1.0	0.0015	012.5047	005.4817	049.761
65.00	0.245	1.0	0.0013	011.8288	004.9991	050.279
66.00	0.232	1.0	0.0012	011.2012	004.5559	050.767
67.00	0.219	1.0	0.0011	010.5735	004.1314	051.267
68.00	0.206	1.0	0.0009	009.9459	003.7258	051.778
69.00	0.193	1.0	0.0008	009.3182	003.3393	052.301
70.00	0.181	1.0	0.0007	008.7388	002.9889	052.788
71.00	0.169	1.0	0.0006	008.1595	002.6565	053.285
72.00	0.157	1.0	0.0005	007.5801	002.3424	053.791
73.00	0.146	1.0	0.0005	007.0490	002.0609	054.259
74.00	0.135	1.0	0.0004	006.5179	001.7966	054.735
75.00	0.124	1.0	0.0003	005.9868	001.5495	055.217
76.00	0.114	1.0	0.0003	005.5040	001.3315	055.659
77.00	0.104	1.0	0.0002	005.0212	001.1295	056.107
78.00	0.095	1.0	0.0002	004.5867	000.9536	056.514
79.00	0.086	1.0	0.0002	004.1522	000.7923	056.924
80.00	0.077	1.0	0.0001	003.7176	000.6456	057.339
81.00	0.069	1.0	0.0001	003.3314	000.5211	057.710
82.00	0.061	1.0	0.0001	002.9451	000.4099	058.084
83.00	0.054	1.0	0.0001	002.6072	000.3177	058.412
84.00	0.047	1.0	0.0000	002.2692	000.2372	058.743
85.00	0.041	1.0	0.0000	001.9795	000.1725	059.028
86.00	0.035	1.0	0.0000	001.6898	000.1179	059.314
87.00	0.029	1.0	0.0000	001.4001	000.0733	059.602
88.00	0.024	1.0	0.0000	001.1587	000.0404	059.842
89.00	0.02	1.0	0.0000	000.9656	000.0169	060.035
90.00	0.016	1.0	0.0000	000.7725	000.0000	060.228