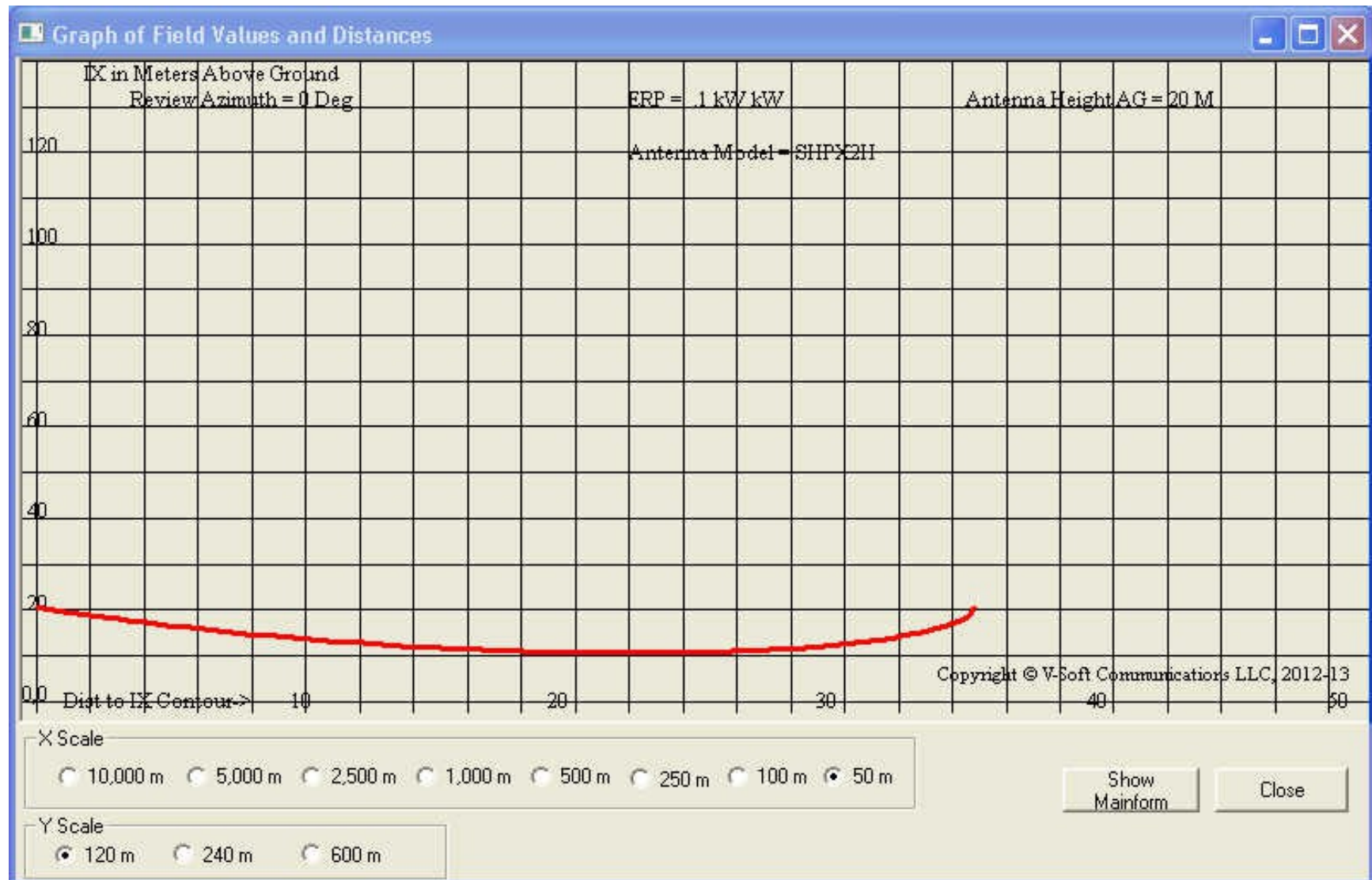


Technical Exhibit  
FLAGSTAFF, AZ 253L

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, KZXX

Below is a graphic and tabular output showing the interfering 126 dB F(50,10) contour of the proposed facility, with respect to KZXX. The antenna of the proposed facility will be mounted in the bell tower of the church. The interfering contour will penetrate into the church but will not come closer than 10.0m to the floor of the church. There are no other buildings within this contour.



LPFM FLAGSTAFF, AZ

74.1204(d) Showing

Translator or LPFM Maximum Licensed ERP = 0.1

Translator or LPFM Antenna Height AG = 20 Meters

LPFM Antenna Model = SHPX2H

Protected Station's Contour = 85.90682 dBu

Translator's or LPFM's full Interference contour 125.90682

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 = 4.9 km

Protected Station= KZXX, .235 kW, 2844 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw) Dep.	Dist to IX Contour Along Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.1000	035.5352	035.5352	020.000
01.00	0.999	1.0	0.0998	035.4997	035.4943	019.380
02.00	0.997	1.0	0.0994	035.4286	035.4070	018.764
03.00	0.994	1.0	0.0988	035.3220	035.2736	018.151
04.00	0.99	1.0	0.0980	035.1799	035.0942	017.546
05.00	0.984	1.0	0.0968	034.9667	034.8336	016.952
06.00	0.977	1.0	0.0955	034.7179	034.5277	016.371
07.00	0.969	1.0	0.0939	034.4336	034.1770	015.804
08.00	0.96	1.0	0.0922	034.1138	033.7818	015.252
09.00	0.949	1.0	0.0901	033.7229	033.3077	014.725
10.00	0.938	1.0	0.0880	033.3320	032.8256	014.212
11.00	0.925	1.0	0.0856	032.8701	032.2662	013.728
12.00	0.912	1.0	0.0832	032.4081	031.6999	013.262
13.00	0.897	1.0	0.0805	031.8751	031.0581	012.830
14.00	0.882	1.0	0.0778	031.3421	030.4111	012.418
15.00	0.865	1.0	0.0748	030.7380	029.6906	012.044
16.00	0.848	1.0	0.0719	030.1339	028.9665	011.694
17.00	0.83	1.0	0.0689	029.4942	028.2055	011.377
18.00	0.811	1.0	0.0658	028.8191	027.4086	011.094
19.00	0.792	1.0	0.0627	028.1439	026.6106	010.837

20.00	0.772	1.0	0.0596	027.4332	025.7788	010.617
21.00	0.751	1.0	0.0564	026.6869	024.9144	010.436
22.00	0.73	1.0	0.0533	025.9407	024.0518	010.282
23.00	0.709	1.0	0.0503	025.1945	023.1916	010.156
24.00	0.687	1.0	0.0472	024.4127	022.3021	010.070
25.00	0.665	1.0	0.0442	023.6309	021.4169	010.013
26.00	0.643	1.0	0.0413	022.8491	020.5367	009.984
27.00	0.621	1.0	0.0386	022.0674	019.6622	009.982
28.00	0.598	1.0	0.0358	021.2501	018.7627	010.024
29.00	0.576	1.0	0.0332	020.4683	017.9020	010.077
30.00	0.553	1.0	0.0306	019.6510	017.0182	010.175
31.00	0.53	1.0	0.0281	018.8337	016.1436	010.300
32.00	0.508	1.0	0.0258	018.0519	015.3089	010.434
33.00	0.486	1.0	0.0236	017.2701	014.4839	010.594
34.00	0.464	1.0	0.0215	016.4883	013.6695	010.780
35.00	0.442	1.0	0.0195	015.7066	012.8661	010.991
36.00	0.421	1.0	0.0177	014.9603	012.1032	011.207
37.00	0.4	1.0	0.0160	014.2141	011.3519	011.446
38.00	0.379	1.0	0.0144	013.4678	010.6128	011.708
39.00	0.359	1.0	0.0129	012.7571	009.9142	011.972
40.00	0.339	1.0	0.0115	012.0464	009.2281	012.257
41.00	0.32	1.0	0.0102	011.3713	008.5820	012.540
42.00	0.301	1.0	0.0091	010.6961	007.9488	012.843
43.00	0.283	1.0	0.0080	010.0565	007.3548	013.142
44.00	0.265	1.0	0.0070	009.4168	006.7739	013.459
45.00	0.248	1.0	0.0062	008.8127	006.2315	013.768
46.00	0.232	1.0	0.0054	008.2442	005.7269	014.070
47.00	0.216	1.0	0.0047	007.6756	005.2348	014.386
48.00	0.201	1.0	0.0040	007.1426	004.7793	014.692
49.00	0.186	1.0	0.0035	006.6096	004.3363	015.012
50.00	0.172	1.0	0.0030	006.1121	003.9288	015.318
51.00	0.159	1.0	0.0025	005.6501	003.5557	015.609
52.00	0.146	1.0	0.0021	005.1881	003.1941	015.912
53.00	0.134	1.0	0.0018	004.7617	002.8657	016.197
54.00	0.123	1.0	0.0015	004.3708	002.5691	016.464
55.00	0.112	1.0	0.0013	003.9799	002.2828	016.740
56.00	0.102	1.0	0.0010	003.6246	002.0268	016.995
57.00	0.093	1.0	0.0009	003.3048	001.7999	017.228
58.00	0.084	1.0	0.0007	002.9850	001.5818	017.469
59.00	0.076	1.0	0.0006	002.7007	001.3910	017.685

60.00	0.068	1.0	0.0005	002.4164	001.2082	017.907
61.00	0.061	1.0	0.0004	002.1676	001.0509	018.104
62.00	0.054	1.0	0.0003	001.9189	000.9009	018.306
63.00	0.048	1.0	0.0002	001.7057	000.7744	018.480
64.00	0.042	1.0	0.0002	001.4925	000.6543	018.659
65.00	0.037	1.0	0.0001	001.3148	000.5557	018.808
66.00	0.033	1.0	0.0001	001.1727	000.4770	018.929
67.00	0.028	1.0	0.0001	000.9950	000.3888	019.084
68.00	0.025	1.0	0.0001	000.8884	000.3328	019.176
69.00	0.021	1.0	0.0000	000.7462	000.2674	019.303
70.00	0.018	1.0	0.0000	000.6396	000.2188	019.399
71.00	0.015	1.0	0.0000	000.5330	000.1735	019.496
72.00	0.013	1.0	0.0000	000.4620	000.1428	019.561
73.00	0.011	1.0	0.0000	000.3909	000.1143	019.626
74.00	0.009	1.0	0.0000	000.3198	000.0882	019.693
75.00	0.007	1.0	0.0000	000.2487	000.0644	019.760
76.00	0.006	1.0	0.0000	000.2132	000.0516	019.793
77.00	0.005	1.0	0.0000	000.1777	000.0400	019.827
78.00	0.004	1.0	0.0000	000.1421	000.0296	019.861
79.00	0.003	1.0	0.0000	000.1066	000.0203	019.895
80.00	0.002	1.0	0.0000	000.0711	000.0123	019.930
81.00	0.002	1.0	0.0000	000.0711	000.0111	019.930
82.00	0.001	1.0	0.0000	000.0355	000.0049	019.965
83.00	0.001	1.0	0.0000	000.0355	000.0043	019.965
84.00	0.001	1.0	0.0000	000.0355	000.0037	019.965
85.00	0.001	1.0	0.0000	000.0355	000.0031	019.965
86.00	0.0	1.0	0.0000	000.0036	000.0002	019.996
87.00	0.0	1.0	0.0000	000.0036	000.0002	019.996
88.00	0.0	1.0	0.0000	000.0036	000.0001	019.996
89.00	0.0	1.0	0.0000	000.0036	000.0001	019.996
90.00	0.0	1.0	0.0000	000.0036	000.0000	019.996

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