

INTERFERENCE EXHIBIT FOR SAN DIEGO, CA

The proposed facility is fully spaced to all relevant stations except KMYI and KHTS. 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, KMYI or KHTS.

The instant facility is on the tower with KHTS. It is impossible for the instant facility to produce a signal 40 dBu greater than KHTS.

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 47.7m.

Tabular Analysis

LPFM San Diego, CA
74.1204(d) Showing
Translator or LPFM Maximum Licensed ERP = 0.049
Translator or LPFM Antenna Height AG = 60 Meters
LPFM Antenna Model = SHPX1F

Protected Station's Contour = 84.22959 dBu
LPFM's full Interference contour 124.22959

Review Azimuth = 0 Degrees True
Relative Field on the horizon at Review Azimuth = 1.000
Translator/LPFM ERP on the horizon at Review Azimuth = 0.049 kW
Distance between stations = 19.6 km
Protected Station= KMYI, 77 kW, 289 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	0.0490	030.1730	030.1730	060.000
01.00	1.0	1.0	0.0490	030.1730	030.1684	059.473
02.00	0.999	1.0	0.0489	030.1428	030.1245	058.948
03.00	0.998	1.0	0.0488	030.1127	030.0714	058.424
04.00	0.996	1.0	0.0486	030.0523	029.9791	057.904

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05.00	0.993	1.0	0.0483	029.9618	029.8478	057.389
06.00	0.99	1.0	0.0480	029.8713	029.7076	056.878
07.00	0.987	1.0	0.0477	029.7808	029.5588	056.371
08.00	0.983	1.0	0.0473	029.6601	029.3714	055.872
09.00	0.979	1.0	0.0470	029.5394	029.1757	055.379
10.00	0.974	1.0	0.0465	029.3885	028.9420	054.897
11.00	0.968	1.0	0.0459	029.2075	028.6708	054.427
12.00	0.962	1.0	0.0453	029.0264	028.3921	053.965
13.00	0.956	1.0	0.0448	028.8454	028.1061	053.511
14.00	0.949	1.0	0.0441	028.6342	027.7836	053.073
15.00	0.941	1.0	0.0434	028.3928	027.4253	052.651
16.00	0.933	1.0	0.0427	028.1514	027.0609	052.240
17.00	0.925	1.0	0.0419	027.9100	026.6905	051.840
18.00	0.916	1.0	0.0411	027.6385	026.2857	051.459
19.00	0.907	1.0	0.0403	027.3669	025.8759	051.090
20.00	0.897	1.0	0.0394	027.0652	025.4330	050.743
21.00	0.887	1.0	0.0386	026.7635	024.9858	050.409
22.00	0.877	1.0	0.0377	026.4617	024.5349	050.087
23.00	0.866	1.0	0.0367	026.1298	024.0526	049.790
24.00	0.855	1.0	0.0358	025.7979	023.5676	049.507
25.00	0.843	1.0	0.0348	025.4358	023.0527	049.250
26.00	0.831	1.0	0.0338	025.0738	022.5362	049.008
27.00	0.819	1.0	0.0329	024.7117	022.0183	048.781
28.00	0.806	1.0	0.0318	024.3194	021.4728	048.583
29.00	0.793	1.0	0.0308	023.9272	020.9272	048.400
30.00	0.78	1.0	0.0298	023.5349	020.3819	048.233
31.00	0.766	1.0	0.0288	023.1125	019.8113	048.096
32.00	0.752	1.0	0.0277	022.6901	019.2423	047.976
33.00	0.738	1.0	0.0267	022.2677	018.6752	047.872
34.00	0.723	1.0	0.0256	021.8151	018.0855	047.801
35.00	0.709	1.0	0.0246	021.3927	017.5238	047.730
36.00	0.694	1.0	0.0236	020.9401	016.9409	047.692
37.00	0.679	1.0	0.0226	020.4875	016.3620	047.670
38.00	0.664	1.0	0.0216	020.0349	015.7877	047.665
39.00	0.648	1.0	0.0206	019.5521	015.1948	047.695
40.00	0.633	1.0	0.0196	019.0995	014.6311	047.723
41.00	0.617	1.0	0.0187	018.6167	014.0502	047.786
42.00	0.601	1.0	0.0177	018.1340	013.4762	047.866
43.00	0.586	1.0	0.0168	017.6814	012.9313	047.941
44.00	0.57	1.0	0.0159	017.1986	012.3716	048.053
45.00	0.554	1.0	0.0150	016.7158	011.8199	048.180

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46.00	0.537	1.0	0.0141	016.2029	011.2555	048.345
47.00	0.521	1.0	0.0133	015.7201	010.7211	048.503
48.00	0.505	1.0	0.0125	015.2374	010.1958	048.676
49.00	0.489	1.0	0.0117	014.7546	009.6799	048.865
50.00	0.473	1.0	0.0110	014.2718	009.1738	049.067
51.00	0.457	1.0	0.0102	013.7891	008.6777	049.284
52.00	0.441	1.0	0.0095	013.3063	008.1922	049.514
53.00	0.425	1.0	0.0089	012.8235	007.7174	049.759
54.00	0.409	1.0	0.0082	012.3408	007.2537	050.016
55.00	0.394	1.0	0.0076	011.8882	006.8188	050.262
56.00	0.378	1.0	0.0070	011.4054	006.3778	050.544
57.00	0.362	1.0	0.0064	010.9226	005.9489	050.840
58.00	0.347	1.0	0.0059	010.4700	005.5483	051.121
59.00	0.332	1.0	0.0054	010.0174	005.1594	051.413
60.00	0.317	1.0	0.0049	009.5648	004.7824	051.717
61.00	0.302	1.0	0.0045	009.1122	004.4177	052.030
62.00	0.288	1.0	0.0041	008.6898	004.0796	052.327
63.00	0.273	1.0	0.0037	008.2372	003.7396	052.661
64.00	0.259	1.0	0.0033	007.8148	003.4258	052.976
65.00	0.245	1.0	0.0029	007.3924	003.1242	053.300
66.00	0.232	1.0	0.0026	007.0001	002.8472	053.605
67.00	0.219	1.0	0.0024	006.6079	002.5819	053.917
68.00	0.206	1.0	0.0021	006.2156	002.3284	054.237
69.00	0.193	1.0	0.0018	005.8234	002.0869	054.563
70.00	0.181	1.0	0.0016	005.4613	001.8679	054.868
71.00	0.169	1.0	0.0014	005.0992	001.6601	055.179
72.00	0.157	1.0	0.0012	004.7372	001.4639	055.495
73.00	0.146	1.0	0.0010	004.4053	001.2880	055.787
74.00	0.135	1.0	0.0009	004.0734	001.1228	056.084
75.00	0.124	1.0	0.0008	003.7415	000.9684	056.386
76.00	0.114	1.0	0.0006	003.4397	000.8321	056.662
77.00	0.104	1.0	0.0005	003.1380	000.7059	056.942
78.00	0.095	1.0	0.0004	002.8664	000.5960	057.196
79.00	0.086	1.0	0.0004	002.5949	000.4951	057.453
80.00	0.077	1.0	0.0003	002.3233	000.4034	057.712
81.00	0.069	1.0	0.0002	002.0819	000.3257	057.944
82.00	0.061	1.0	0.0002	001.8406	000.2562	058.177
83.00	0.054	1.0	0.0001	001.6293	000.1986	058.383
84.00	0.047	1.0	0.0001	001.4181	000.1482	058.590
85.00	0.041	1.0	0.0001	001.2371	000.1078	058.768
86.00	0.035	1.0	0.0001	001.0561	000.0737	058.947

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87.00	0.029	1.0	0.0000	000.8750	000.0458	059.126
88.00	0.024	1.0	0.0000	000.7242	000.0253	059.276
89.00	0.02	1.0	0.0000	000.6035	000.0105	059.397
90.00	0.016	1.0	0.0000	000.4828	000.0000	059.517

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