

INTERFERENCE EXHIBIT FOR HOUSTON, TX

The proposed facility is fully spaced to all relevant stations except KKHH. 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 KKHH.

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 KKHH 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 or structures. The closest the interfering contour comes to the ground is 4.3m between roughly 30m and 45m from the tower. This area is undeveloped scrub brush.

Tabular Analysis

NEW.C Houston, TX

74.1204(d) Showing

LPFM Maximum Licensed ERP = 0.1

LPFM Antenna Height AG = 25 Meters

NEW.C Antenna Model = 6812B 2 1-2

Protected Station's Contour = 80.38177 dBu

LPFM's full Interference contour 120.38177

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

LPFM ERP on the horizon at Review Azimuth = 0.1 kW

Distance between stations = 44.0 km

Protected Station= KKHH, 100 kW, 605 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw) Contour Dep.	Dist to IX Along Contour Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.1000	067.1292	067.1292	025.000
01.00	0.999	1.0	0.0998	067.0621	067.0519	023.830
02.00	0.998	1.0	0.0996	066.9949	066.9541	022.662

INTERFERENCE EXHIBIT FOR HOUSTON, TX

03.00	0.995	1.0	0.0990	066.7936	066.7020	021.504
04.00	0.995	1.0	0.0990	066.7936	066.6309	020.341
05.00	0.987	1.0	0.0974	066.2565	066.0044	019.225
06.00	0.981	1.0	0.0962	065.8537	065.4930	018.116
07.00	0.975	1.0	0.0951	065.4510	064.9631	017.024
08.00	0.967	1.0	0.0935	064.9139	064.2822	015.966
09.00	0.958	1.0	0.0918	064.3098	063.5180	014.940
10.00	0.949	1.0	0.0901	063.7056	062.7378	013.938
11.00	0.938	1.0	0.0880	062.9672	061.8103	012.985
12.00	0.927	1.0	0.0859	062.2288	060.8689	012.062
13.00	0.915	1.0	0.0837	061.4232	059.8490	011.183
14.00	0.902	1.0	0.0814	060.5505	058.7519	010.351
15.00	0.888	1.0	0.0789	059.6107	057.5795	009.572
16.00	0.874	1.0	0.0764	058.6709	056.3981	008.828
17.00	0.858	1.0	0.0736	057.5969	055.0801	008.160
18.00	0.843	1.0	0.0711	056.5899	053.8202	007.513
19.00	0.826	1.0	0.0682	055.4487	052.4278	006.948
20.00	0.809	1.0	0.0654	054.3075	051.0324	006.426
21.00	0.791	1.0	0.0626	053.0992	049.5724	005.971
22.00	0.773	1.0	0.0598	051.8909	048.1124	005.561
23.00	0.754	1.0	0.0569	050.6154	046.5917	005.223
24.00	0.735	1.0	0.0540	049.3400	045.0743	004.932
25.00	0.716	1.0	0.0513	048.0645	043.5612	004.687
26.00	0.696	1.0	0.0484	046.7219	041.9934	004.518
27.00	0.676	1.0	0.0457	045.3793	040.4333	004.398
28.00	0.656	1.0	0.0430	044.0368	038.8822	004.326
29.00	0.636	1.0	0.0404	042.6942	037.3412	004.301
30.00	0.615	1.0	0.0378	041.2845	035.7534	004.358
31.00	0.594	1.0	0.0353	039.8747	034.1793	004.463
32.00	0.574	1.0	0.0329	038.5322	032.6771	004.581
33.00	0.553	1.0	0.0306	037.1224	031.1335	004.782
34.00	0.532	1.0	0.0283	035.7127	029.6072	005.030
35.00	0.512	1.0	0.0262	034.3702	028.1544	005.286

INTERFERENCE EXHIBIT FOR HOUSTON, TX

36.00	0.491	1.0	0.0241	032.9604	026.6656	005.626
37.00	0.471	1.0	0.0222	031.6179	025.2511	005.972
38.00	0.451	1.0	0.0203	030.2753	023.8572	006.361
39.00	0.431	1.0	0.0186	028.9327	022.4849	006.792
40.00	0.411	1.0	0.0169	027.5901	021.1352	007.265
41.00	0.391	1.0	0.0153	026.2475	019.8093	007.780
42.00	0.372	1.0	0.0138	024.9721	018.5579	008.290
43.00	0.353	1.0	0.0125	023.6966	017.3306	008.839
44.00	0.335	1.0	0.0112	022.4883	016.1767	009.378
45.00	0.317	1.0	0.0100	021.2800	015.0472	009.953
46.00	0.3	1.0	0.0090	020.1388	013.9896	010.513
47.00	0.282	1.0	0.0080	018.9304	012.9105	011.155
48.00	0.266	1.0	0.0071	017.8564	011.9482	011.730
49.00	0.249	1.0	0.0062	016.7152	010.9661	012.385
50.00	0.234	1.0	0.0055	015.7082	010.0971	012.967
51.00	0.219	1.0	0.0048	014.7013	009.2518	013.575
52.00	0.204	1.0	0.0042	013.6944	008.4311	014.209
53.00	0.19	1.0	0.0036	012.7545	007.6759	014.814
54.00	0.176	1.0	0.0031	011.8147	006.9445	015.442
55.00	0.163	1.0	0.0027	010.9421	006.2761	016.037
56.00	0.151	1.0	0.0023	010.1365	005.6683	016.596
57.00	0.139	1.0	0.0019	009.3310	005.0820	017.174
58.00	0.127	1.0	0.0016	008.5254	004.5178	017.770
59.00	0.116	1.0	0.0013	007.7870	004.0106	018.325
60.00	0.106	1.0	0.0011	007.1157	003.5578	018.838
61.00	0.096	1.0	0.0009	006.4444	003.1243	019.364
62.00	0.087	1.0	0.0008	005.8402	002.7418	019.843
63.00	0.079	1.0	0.0006	005.3032	002.4076	020.275
64.00	0.071	1.0	0.0005	004.7662	002.0894	020.716
65.00	0.063	1.0	0.0004	004.2291	001.7873	021.167
66.00	0.056	1.0	0.0003	003.7592	001.5290	021.566
67.00	0.05	1.0	0.0003	003.3565	001.3115	021.910
68.00	0.043	1.0	0.0002	002.8866	001.0813	022.324

INTERFERENCE EXHIBIT FOR HOUSTON, TX

69.00	0.038	1.0	0.0001	002.5509	000.9142	022.619
70.00	0.033	1.0	0.0001	002.2153	000.7577	022.918
71.00	0.028	1.0	0.0001	001.8796	000.6119	023.223
72.00	0.024	1.0	0.0001	001.6111	000.4979	023.468
73.00	0.02	1.0	0.0000	001.3426	000.3925	023.716
74.00	0.017	1.0	0.0000	001.1412	000.3146	023.903
75.00	0.014	1.0	0.0000	000.9398	000.2432	024.092
76.00	0.011	1.0	0.0000	000.7384	000.1786	024.284
77.00	0.009	1.0	0.0000	000.6042	000.1359	024.411
78.00	0.007	1.0	0.0000	000.4699	000.0977	024.540
79.00	0.005	1.0	0.0000	000.3356	000.0640	024.671
80.00	0.004	1.0	0.0000	000.2685	000.0466	024.736
81.00	0.003	1.0	0.0000	000.2014	000.0315	024.801
82.00	0.002	1.0	0.0000	000.1343	000.0187	024.867
83.00	0.001	1.0	0.0000	000.0671	000.0082	024.933
84.00	0.001	1.0	0.0000	000.0671	000.0070	024.933
85.00	0.0	1.0	0.0000	000.0067	000.0006	024.993
86.00	0.0	1.0	0.0000	000.0067	000.0005	024.993
87.00	0.0	1.0	0.0000	000.0067	000.0004	024.993
88.00	0.0	1.0	0.0000	000.0067	000.0002	024.993
89.00	0.0	1.0	0.0000	000.0067	000.0001	024.993
90.00	0.0	1.0	0.0000	000.0067	000.0000	024.993

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Graphic Analysis

