

Interference Exhibit for Springvale, ME 289L1

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

As shown by the tabular 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 61.4m at 87m from the tower.

1576114 Springvale, ME

74.1204(d) Showing

LPFM Maximum Licensed ERP = 0.002

LPFM Antenna Height AG = 130 Meters

1576114 Antenna Model = SHPX1F

Protected Station's Contour = 55.98282 dBu

Translator's or LPFM's full Interference contour 95.98282

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

LPFM ERP on the horizon at Review Azimuth = 0.002 kW

Distance between stations = 27.0 km

Protected Station= WSHK, 2.2 kW, 142 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw) Contour Along Dep. Angle(m)	Dist to IX Contour Along Tower Base(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0023	167.8679	167.8679	130.000
01.00	1.0	1.0	0.0023	167.8679	167.8423	127.070
02.00	0.999	1.0	0.0023	167.7000	167.5978	124.147
03.00	0.998	1.0	0.0023	167.5321	167.3025	121.232
04.00	0.996	1.0	0.0023	167.1964	166.7891	118.337
05.00	0.993	1.0	0.0022	166.6928	166.0585	115.472
06.00	0.99	1.0	0.0022	166.1892	165.2788	112.628
07.00	0.987	1.0	0.0022	165.6856	164.4506	109.808
08.00	0.983	1.0	0.0022	165.0141	163.4082	107.034
09.00	0.979	1.0	0.0022	164.3426	162.3193	104.291
10.00	0.974	1.0	0.0022	163.5033	161.0193	101.608

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11.00	0.968	1.0	0.0021	162.4961	159.5106	098.994
12.00	0.962	1.0	0.0021	161.4889	157.9600	096.425
13.00	0.956	1.0	0.0021	160.4817	156.3685	093.899
14.00	0.949	1.0	0.0020	159.3066	154.5745	091.460
15.00	0.941	1.0	0.0020	157.9637	152.5812	089.116
16.00	0.933	1.0	0.0020	156.6207	150.5535	086.829
17.00	0.925	1.0	0.0019	155.2778	148.4929	084.601
18.00	0.916	1.0	0.0019	153.7670	146.2411	082.483
19.00	0.907	1.0	0.0019	152.2562	143.9610	080.430
20.00	0.897	1.0	0.0018	150.5775	141.4965	078.499
21.00	0.887	1.0	0.0018	148.8988	139.0090	076.639
22.00	0.877	1.0	0.0017	147.2201	136.5001	074.850
23.00	0.866	1.0	0.0017	145.3736	133.8171	073.198
24.00	0.855	1.0	0.0017	143.5270	131.1185	071.622
25.00	0.843	1.0	0.0016	141.5126	128.2540	070.194
26.00	0.831	1.0	0.0016	139.4982	125.3801	068.848
27.00	0.819	1.0	0.0015	137.4838	122.4989	067.584
28.00	0.806	1.0	0.0015	135.3015	119.4641	066.480
29.00	0.793	1.0	0.0014	133.1192	116.4287	065.463
30.00	0.78	1.0	0.0014	130.9369	113.3947	064.532
31.00	0.766	1.0	0.0013	128.5868	110.2204	063.773
32.00	0.752	1.0	0.0013	126.2366	107.0547	063.105
33.00	0.738	1.0	0.0012	123.8865	103.8999	062.527
34.00	0.723	1.0	0.0012	121.3685	100.6190	062.132
35.00	0.709	1.0	0.0011	119.0183	097.4941	061.734
36.00	0.694	1.0	0.0011	116.5003	094.2507	061.523
37.00	0.679	1.0	0.0010	113.9823	091.0303	061.404
38.00	0.664	1.0	0.0010	111.4643	087.8350	061.376
39.00	0.648	1.0	0.0010	108.7784	084.5367	061.544
40.00	0.633	1.0	0.0009	106.2604	081.4002	061.697
41.00	0.617	1.0	0.0009	103.5745	078.1686	062.049
42.00	0.601	1.0	0.0008	100.8886	074.9748	062.492
43.00	0.586	1.0	0.0008	098.3706	071.9437	062.911
44.00	0.57	1.0	0.0007	095.6847	068.8298	063.532
45.00	0.554	1.0	0.0007	092.9988	065.7601	064.240
46.00	0.537	1.0	0.0007	090.1450	062.6200	065.155
47.00	0.521	1.0	0.0006	087.4592	059.6470	066.036
48.00	0.505	1.0	0.0006	084.7733	056.7244	067.001
49.00	0.489	1.0	0.0005	082.0874	053.8542	068.048
50.00	0.473	1.0	0.0005	079.4015	051.0383	069.175
51.00	0.457	1.0	0.0005	076.7156	048.2787	070.381

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52.00	0.441	1.0	0.0004	074.0297	045.5773	071.664
53.00	0.425	1.0	0.0004	071.3438	042.9358	073.022
54.00	0.409	1.0	0.0004	068.6580	040.3561	074.455
55.00	0.394	1.0	0.0004	066.1399	037.9363	075.821
56.00	0.378	1.0	0.0003	063.4541	035.4831	077.394
57.00	0.362	1.0	0.0003	060.7682	033.0967	079.036
58.00	0.347	1.0	0.0003	058.2501	030.8679	080.601
59.00	0.332	1.0	0.0003	055.7321	028.7042	082.228
60.00	0.317	1.0	0.0002	053.2141	026.6071	083.915
61.00	0.302	1.0	0.0002	050.6961	024.5780	085.660
62.00	0.288	1.0	0.0002	048.3459	022.6970	087.313
63.00	0.273	1.0	0.0002	045.8279	020.8054	089.167
64.00	0.259	1.0	0.0002	043.4778	019.0594	090.922
65.00	0.245	1.0	0.0001	041.1276	017.3813	092.726
66.00	0.232	1.0	0.0001	038.9453	015.8405	094.422
67.00	0.219	1.0	0.0001	036.7631	014.3645	096.159
68.00	0.206	1.0	0.0001	034.5808	012.9542	097.937
69.00	0.193	1.0	0.0001	032.3985	011.6106	099.753
70.00	0.181	1.0	0.0001	030.3841	010.3920	101.448
71.00	0.169	1.0	0.0001	028.3697	009.2363	103.176
72.00	0.157	1.0	0.0001	026.3553	008.1442	104.935
73.00	0.146	1.0	0.0000	024.5087	007.1657	106.562
74.00	0.135	1.0	0.0000	022.6622	006.2465	108.216
75.00	0.124	1.0	0.0000	020.8156	005.3875	109.894
76.00	0.114	1.0	0.0000	019.1369	004.6296	111.432
77.00	0.104	1.0	0.0000	017.4583	003.9273	112.989
78.00	0.095	1.0	0.0000	015.9474	003.3157	114.401
79.00	0.086	1.0	0.0000	014.4366	002.7546	115.829
80.00	0.077	1.0	0.0000	012.9258	002.2445	117.271
81.00	0.069	1.0	0.0000	011.5829	001.8120	118.560
82.00	0.061	1.0	0.0000	010.2399	001.4251	119.860
83.00	0.054	1.0	0.0000	009.0649	001.1047	121.003
84.00	0.047	1.0	0.0000	007.8898	000.8247	122.153
85.00	0.041	1.0	0.0000	006.8826	000.5999	123.144
86.00	0.035	1.0	0.0000	005.8754	000.4098	124.139
87.00	0.029	1.0	0.0000	004.8682	000.2548	125.139
88.00	0.024	1.0	0.0000	004.0288	000.1406	125.974
89.00	0.02	1.0	0.0000	003.3574	000.0586	126.643
90.00	0.016	1.0	0.0000	002.6859	000.0000	127.314