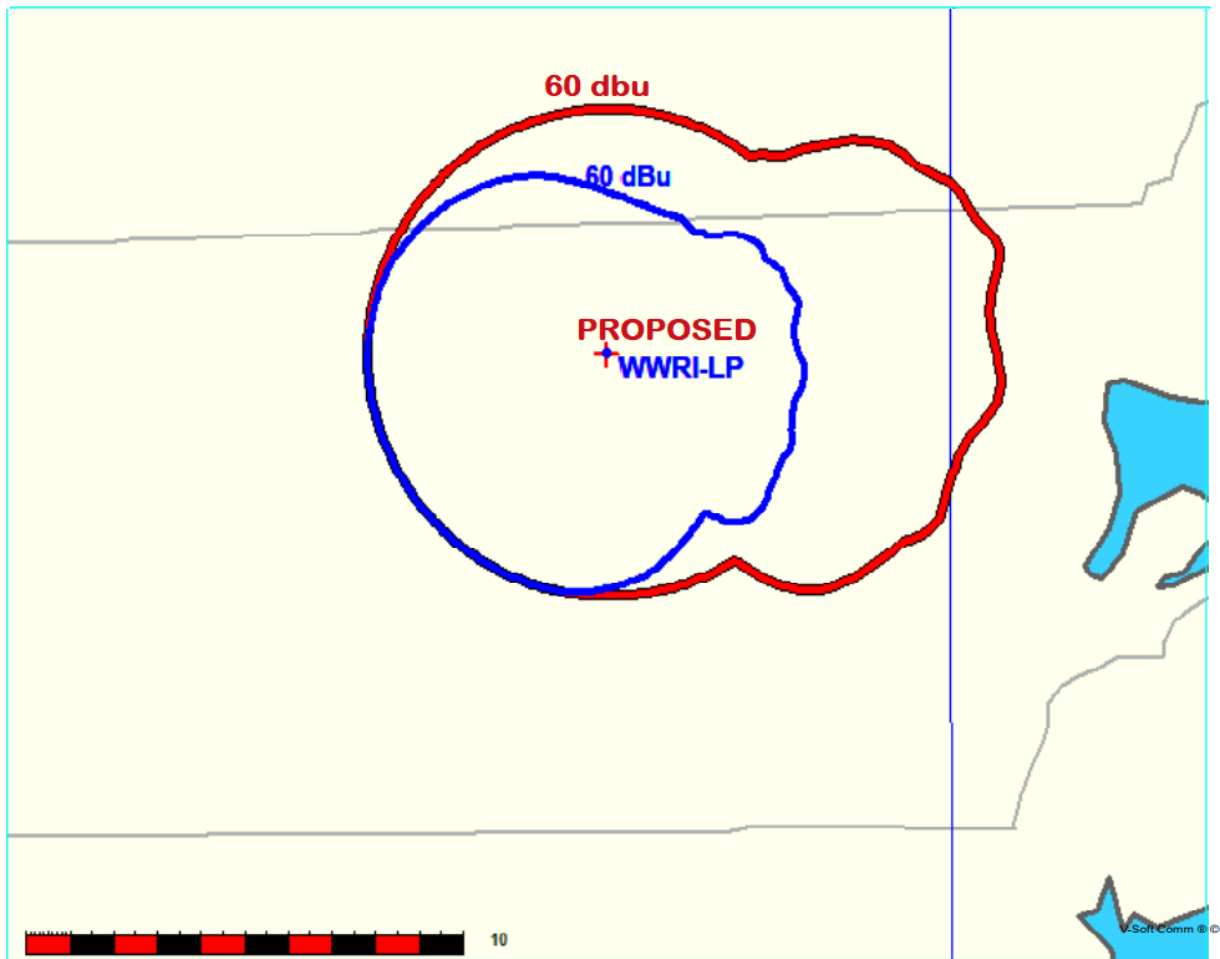


This application is for a minor modification for WWRI-LP. The proposal maintains the same tower, The antenna's patterns will be change from Directional to Omni directional The proposed changes keep the same margin of separation, for the second adjacent 238B channel WLVO Utilization of a proper antenna will provide the necessary protection for such station, as demonstrated in the second adjacent exhibit. The 60dBu Signal does not extend more than 5.6Km from the tower site.

PROPOSED WWRI-LP								
Arsan Broadcasting Foundation								
REFERENCE					DISPLAY DATES			
41 42 00.40 N.					CLASS = L1		DATA	02-26-24
71 35 39.20 W.					Current Spacings to 2nd Adj.		SEARCH	03-01-24
----- Channel 236 - 95.1 MHz -----								
Call	Channel	Location			Azi	Dist	FCC	Margin
WLVO	LIC	238B	Providence	RI	52.7	23.48	66.5	-43.0
WXTK	LIC-Z	236B	West Yarmouth	MA	93.2	113.13	111.5	1.6
W235CN	LIC-D	235D	Providence	RI	52.8	23.46	20.5	3.0
NEW	APP	236L1	Gloucester	RI	347.6	27.34	23.5	3.8
WXRБ	LIC	236D	Dudley	MA	324.1	47.38	23.5	23.9
WJJF	LIC	235A	Montauk	NY	203.3	80.76	55.5	25.3
WMAS-FM	LIC-D	234B	Enfield	CT	298.7	95.61	66.5	29.1
WHRB	LIC-N	237A	Cambridge	MA	31.3	85.03	55.5	29.5
W237EL	LIC	237D	Willimantic	CT	268.1	51.60	14.5	37.1
WRKI	LIC-D	236B	Brookfield	CT	262.0	154.24	111.5	42.7
W235AV	LIC-D	235D	Tatnuck	MA	339.5	72.40	27.5	44.9

PROPOSED WWRI-LP
Arsan Broadcasting Foundation
Coverage Study - FCC NGDC 30 Sec
03-02-2024



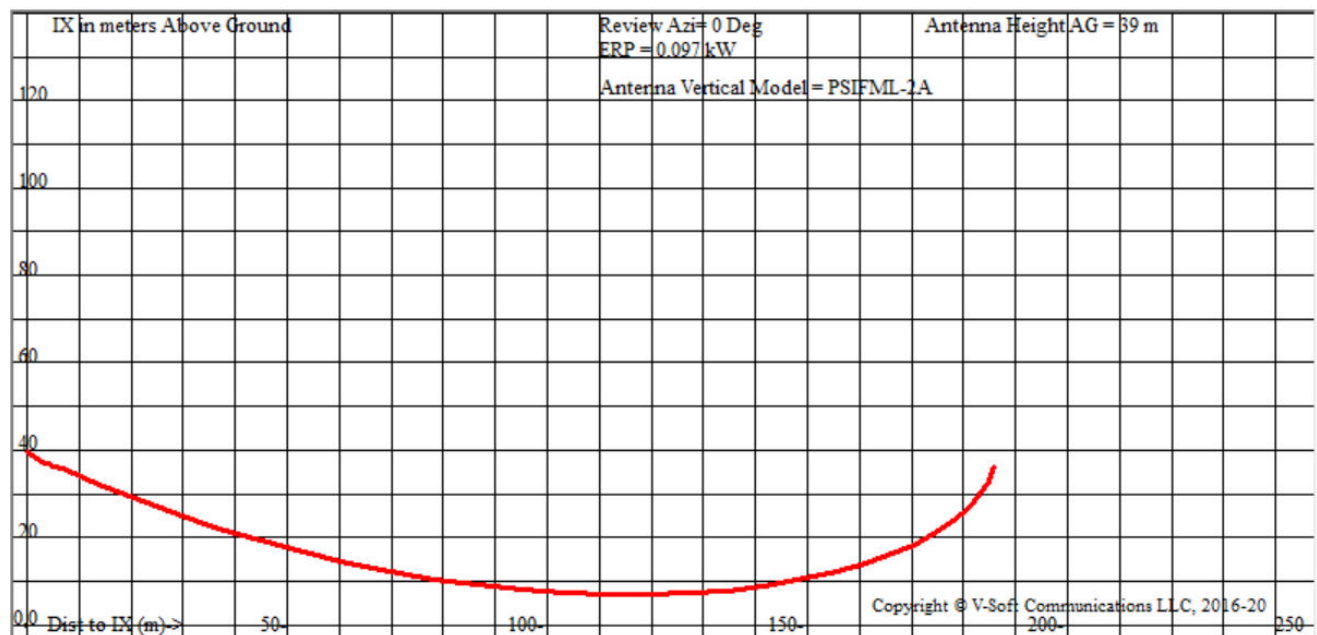
Depression Angle From Degree(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.0970	190.1111	190.1111	039.000
05.00	0.959	1.0	0.0892	182.3165	181.6227	023.110
10.00	0.842	1.0	0.0688	160.0735	157.6416	011.204
15.00	0.664	1.0	0.0428	126.2337	121.9324	006.328
20.00	0.447	1.0	0.0194	084.9796	079.8547	009.935
25.00	0.218	1.0	0.0046	041.4442	037.5612	021.485
30.00	0.039	1.0	0.0001	007.3851	006.3957	035.307
35.00	0.023	1.0	0.0001	004.3872	003.5938	036.484
40.00	0.007	1.0	0.0000	001.3893	001.0642	038.107
45.00	0.007	1.0	0.0000	001.3893	000.9824	038.018
50.00	0.007	1.0	0.0000	001.3893	000.8930	037.936
55.00	0.007	1.0	0.0000	001.3893	000.7969	037.862
60.00	0.007	1.0	0.0000	001.3893	000.6946	037.797
65.00	0.007	1.0	0.0000	001.3893	000.5871	037.741
70.00	0.007	1.0	0.0000	001.3893	000.4752	037.695
75.00	0.007	1.0	0.0000	001.3893	000.3596	037.658
80.00	0.007	1.0	0.0000	001.3893	000.2412	037.632
85.00	0.007	1.0	0.0000	001.3893	000.1211	037.616
90.00	0.007	1.0	0.0000	001.3893	000.0000	037.611

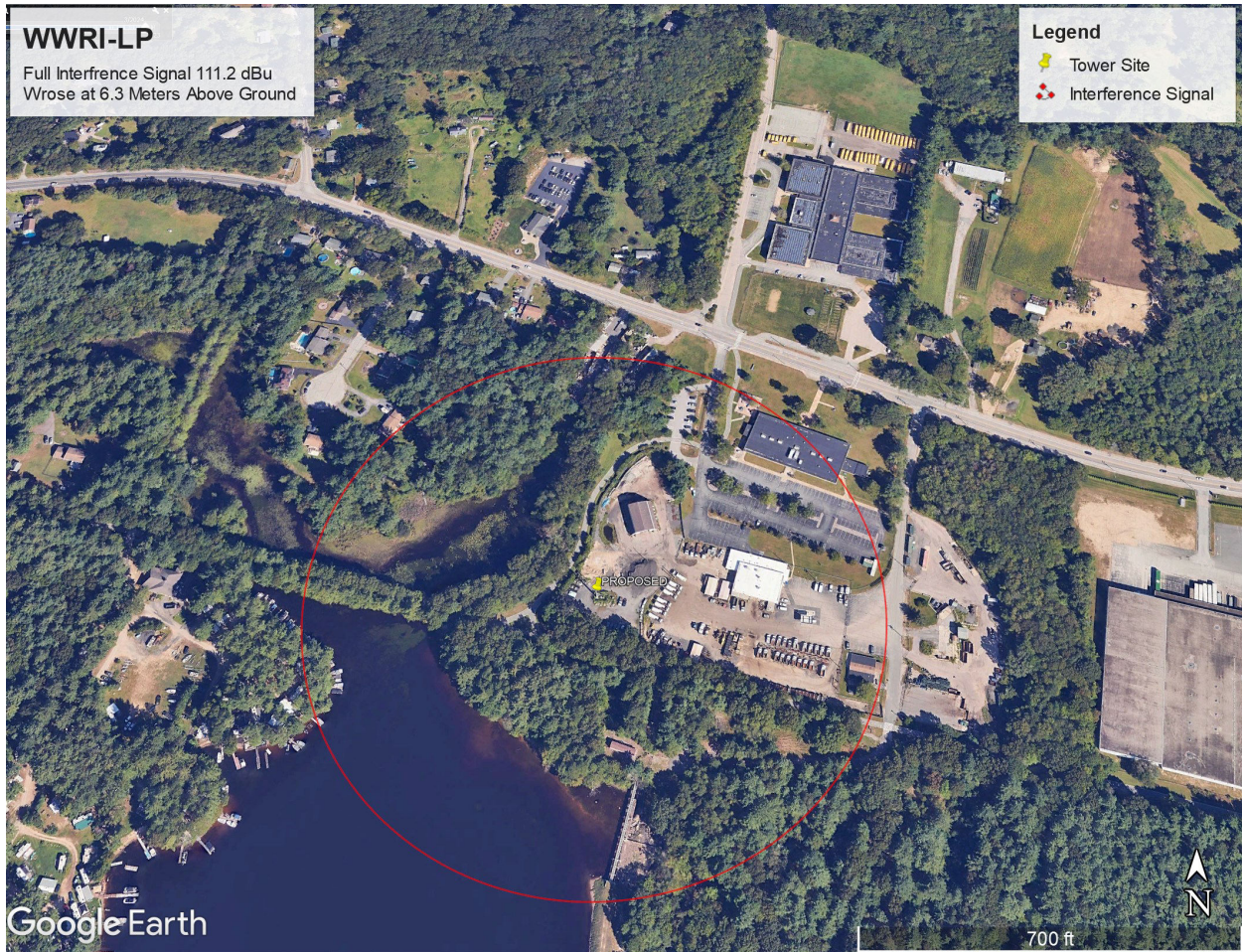
X-Field™ By V-Soft Communications®LLC

The second adjacent 238 channel WLVO is a Class B station located 23.5 km from the proposal. Using PSI FML antenna 2 bays, places the protected station contour at 71.2 dBu utilizing the (U/D Method) +40 dBu, totaling a full interference contour equal to 111.2 dBu. The tabulation above shows that the worst-case scenario is at depression angle of 15 degrees, 121.9 meters from the tower, and 6.3 meters above the ground. Additionally, the graph of elevation below shows that the interference signal does not reach ground level.

6.3 meters above the ground height is higher than a single-story house. A Google Earth aerial view reveals that the surrounding structures, such as the Coventry Public Works warehouse, parking lot, and Public Library, are single-story building. Therefore, the area 6.3 meters above the ground is not an occupied area. According to Section 74.1204(d) of the FCC Rules, WLVO is adequately protected by the proposed facility.

A rule waiver of Section 73.807 for this second adjacent-channel protection as established for Living Way Ministries is respectfully requested





RF Worksheet #1 – FM (including translators & boosters)

PLEASE COPY BEFORE USING. THE DETERMINATION OF COMPLIANCE MAY INVOLVE REPEATED CALCULATIONS. IF LOCATED ON A MULTIPLE FM USER TOWER, PLEASE COMPLETE RF WORKSHEET 1A BEFORE PROCEEDING.

EFFECTIVE RADIATION CENTER HEIGHT

Enter proposed "height of radiation center above ground" OR as listed in Line 1 39 m (1)
of Worksheet 1A.

Is antenna supporting structure located on the roof of a building? (check one)

☐ Yes ☒ No (2)

If Line 2 is "Yes" enter the building height measured at the base of the antenna supporting structure in Line 3

If Line 2 is "No" enter "0" in Line 3..... 0 m (3)

Subtract Line (3) from Line (1)..... 39 m (4)

Subtract the value 2.0 from Line (4)..... 37 m (5)

TOTAL EFFECTIVE RADIATED POWER

(If "beam tilt" is utilized, list maximum values)

List Effective Radiated Power in the Horizontal Plane..... 0.097 kW (6)

List Effective Radiated Power in the Vertical Plane..... 0.097 kW (7)

Add Lines (6) and (7) OR list value from Line 2 in Worksheet 1A..... 0.194 kW (8)

PERCENTAGE OF FCC RF LIMIT(S) FOR MAXIMUM PERMISSIBLE EXPOSURE

Multiply Line (8) by 33.41 6.481 (9)

Multiply the value listed in Line (5) by itself..... 1.369 (10)

Divide Line (9) by Line (10) 0.0047 (11)

Multiply Line (11) by (100) 0.47% (12)