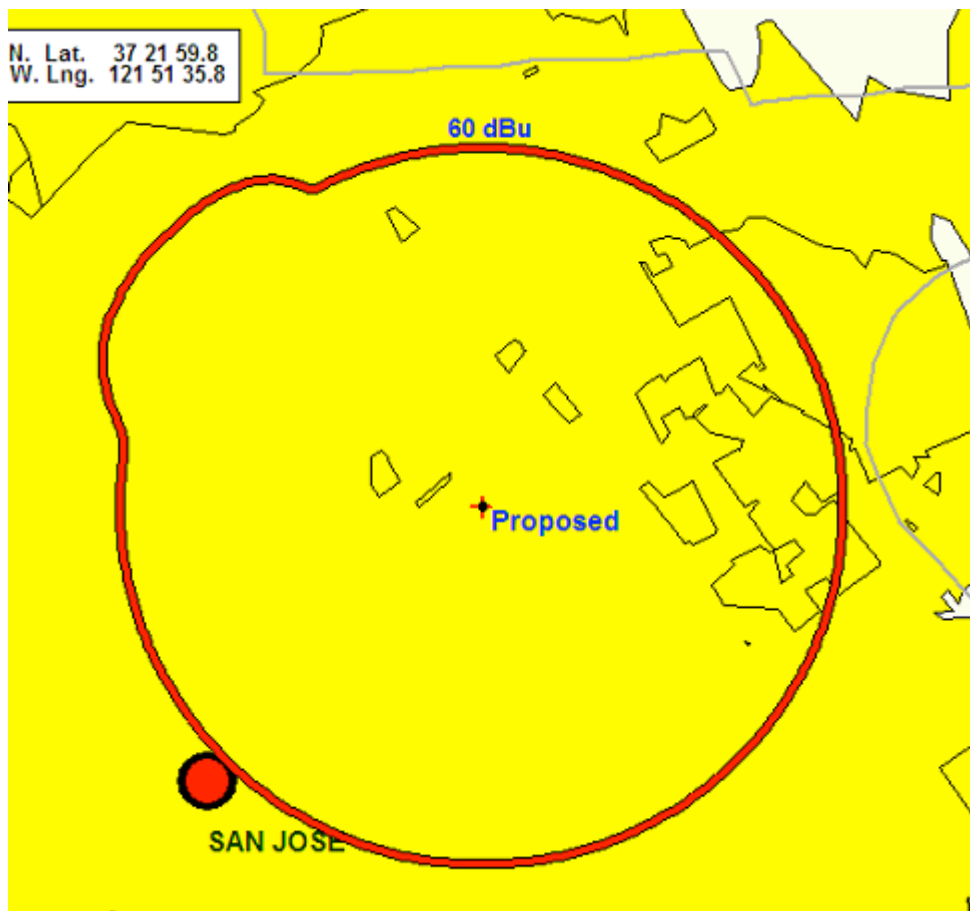


LPFM for San Jose, CA

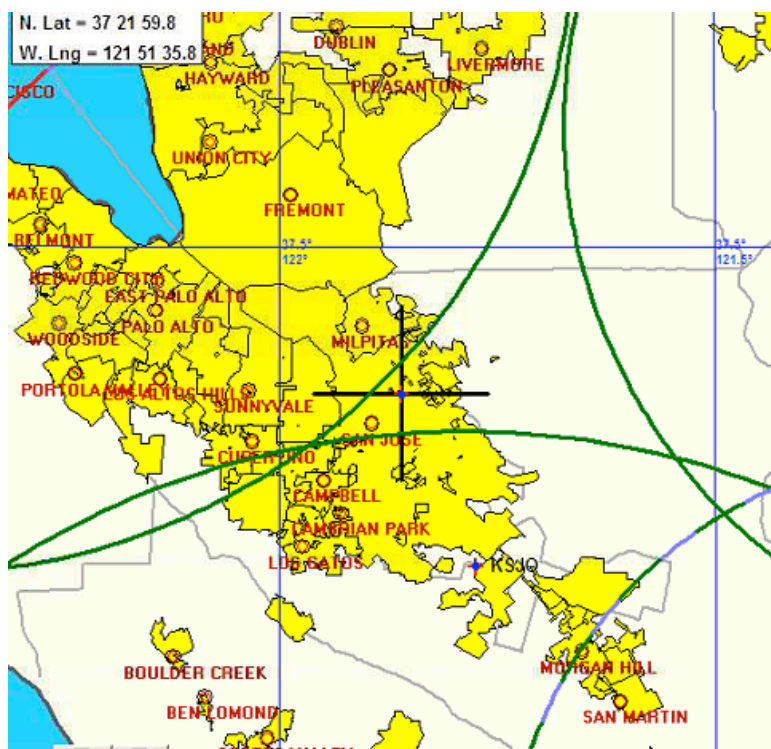
LPFM Parameters

NAD 27	37 21 59.8 N 121 51 35.8 W	(NAD 83 37 21 59.6 N 121 51 39.6 W)
GROUND	30 m	
AGL	20.6 m	
AMSL	50.6 m	
HAAT	-142.5m	
WATTS	50 w	
CHANNEL	224	



Call	Channel		Location		Azi	Dist	FCC	Margin
*KSJO	LIC	222B	San Jose	CA	156.6	19.08	66.5	-47.4
**KRZZ	LIC	227B	San Francisco	CA	305.3	61.97	66.5	-4.5
KREV	LIC	224A	Alameda	CA	314.6	68.64	66.5	2.1
KTOM-FM	LIC	224B1	Marina	CA	175.9	90.57	86.5	4.1
KOSO	LIC	225A	Patterson	CA	69.4	76.95	55.5	21.5
KXSM	LIC-Z	226B1	Hollister	CA	132.4	76.03	45.5	30.5
KKDV	LIC	221A	Walnut Creek	CA	341.6	62.50	28.5	34.0

Spacing Map



SECOND ADJACENT WAIVER REQUEST

Applicant requests a waiver of the Second Adjacent minimum spacing requirements stated in §73.807 of the FCC rules using U/D no-population inference protocol. At the proposed facility site, KSJO San Jose, CA CH222B (Distance 19.1, 32 kW) has an estimated signal strength of 85 dBu.

Contour protection to second adjacent station KSJO is provided using the ratio method. Using the appropriate U/D ratio of 40 db, the corresponding interfering contour of the proposed facility is thus 125 dBu. At 50 watts, this contour would extend to a distance of 27.8 meters from the antenna. However, the field strength of the proposed LPFM's antenna system falls quickly at depression angles below the horizon. Using elevation pattern data provided by SWR (see below) the distance to the 125 dBu contour at various depression angles is tabulated below. The data shows that the lowest point at which the signal strength rises to 125 dBu is 8.6 meters below the center of radiation of the antenna system, or 12 meters above the ground. Therefore, this is sufficient clearance, and the interference area encompasses zero population. The table below show that the lowest elevation point of the 125 dBu F(50,10) interfering contour is 12 meters above the ground.

Thus, the applicant requests second adjacent waiver based upon evidence no interference is proposed.

MAX ERP	DEPRESSION ANGLE BELOW HORIZON	RELATIVE FIELD	dB FROM RELATIVE	ERP	ANGULAR DISTANCE TO 125 dBu CONTOUR	VERTICAL DISTANCE (below antenna)	HORIZONTAL DISTANCE TO 125 dBu CONTOUR	CLEARANCE OF CONTOUR ABOVE GROUND
50	0	1	0.000	50.00	27.8	0	27.8	20.6
50	5	0.987	-0.114	48.71	27.5	2.3	27.3	18.3
50	10	0.95	-0.446	45.13	26.4	4.5	25.9	16.1
50	15	0.89	-1.012	39.61	24.8	6.4	23.9	14.2
50	20	0.812	-1.809	32.97	22.6	7.7	21.2	12.9
50	25	0.721	-2.841	25.99	20	8.4	18.1	12.2
50	30	0.622	-4.124	19.34	17.3	8.6	14.9	12
50	35	0.52	-5.680	13.52	14.4	8.2	11.7	12.4
50	40	0.42	-7.535	8.82	11.7	7.5	8.9	13.1
50	45	0.327	-9.709	5.35	9.1	6.4	6.4	14.2
50	50	0.244	-12.252	2.98	6.8	5.2	4.3	15.4
50	55	0.173	-15.239	1.50	4.8	3.9	2.7	16.7
50	60	0.115	-18.786	0.66	3.2	2.7	1.6	17.9
50	65	0.07	-23.098	0.25	1.9	1.7	0.8	18.9
50	70	0.039	-28.179	0.08	1	0.9	0.3	19.7
50	75	0.018	-34.895	0.02	0.5	0.4	0.1	20.2
50	80	0.006	-44.437	0.00	0.1	0	0	20.6
50	85	0.001	-60.000	0.00	0	0	0	20.6
50	90	0	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!