

Playhouse Arts Second-adjacent Exhibit

Application requests a waiver for a location which is short-spaced on a second-adjacent channel with (LMS)BLH-20101025AAH, callsign KMDR, class C3, status LICEN, MCKINLEYVILLE, CA, channel 236, facility ID 170994

Undesired-to-Desired Ratio Method	
(LMS)BLH-20101025AAH f(50,50) signal	88.580 dBu
Second-adjacent protection	+ 40 dB
Interference-zone boundary	128.58 dBu
Distance to 128.58 dBu	26.1 m (ERP <= 0.1 kW)

The worst-case interference zone is a sphere of radius 26.1 meters, shown projected on the ground in the following map.



The proposed Norwalk NWE-34 antenna is to be mounted at 26 meters AGL, 9 meters above a tower rooftop. Within the building complex, the top floor elevation is 13 meters AGL. By virtue of its elevation pattern, the NWE-34 reduces the downward interference contour distance from 26.1 to 10.5 meters below the antenna resulting in a potential interference floor of $26 - 10.5 = 15.5$ meters AGL which is 0.5m above the heads of people on the top floor.



Norwalk NWE-34 Downward Interference			
		Interference Contour Distance (m)	
Antenna Elevation Field Pattern		26.1	
Elev Angle	Rel Field (%)	Interference Distance (m) at Elevation Angle	Downward Component of Interference Distance (m)
-90.0	0	0.0	0.0
-80.0	0.107	2.8	-2.8
-70.0	0.216	5.6	-5.3
-60.0	0.338	8.8	-7.6
-50.0	0.477	12.4	-9.5
-40.0	0.625	16.3	-10.5
-38.5	0.647	16.9	-10.5
-30.0	0.766	20.0	-10.0
-20.0	0.885	23.1	-7.9
-10.0	0.966	25.2	-4.4
0.0	1	26.1	0.0