

Short Spacing to K275CP

As a result of the requested move, the short spacing to K275CP, which was introduced by K275CP subsequent to KDIF-LP's initial construction permit, is increased from 18 kilometers to 23 kilometers, qualifying it as a minor modification under 73.807(d)

Second-Adjacent Waiver Exhibit

Application requests a waiver for a location which is short-spaced on a second-adjacent channel with BMLH-19870814KA, callsign KNIX-FM, class C, status LIC, Phoenix, AZ, channel 273, facility ID 7698[3]

Undesired-to-Desired Ratio Method	
BMLH-19870814KA f(50,50) signal	108.6 dBu [1][2]
Second-adjacent protection	+ 40 dB
Interference-zone boundary	148.6 dBu
Distance to 148.6 dBu	2.6 m (ERP <= 0.1 kW) [1]

With the presence of single-story ground-level buildings in the vicinity, any antenna height in excess of $2 + 2.6 = 4.6$ meters would prevent interference to occupants. The proposed height of 12 meters AGL provides that no population will be subject to interference from the proposed station according to the undesired-to-desired method.



[1] tvfmfs() Fortran subroutine as distributed by the FCC. At distances less than or equal to 1.5 km, tvfmfs() uses the free-space method.

[2] FCC HAAT Calculator web page,
http://transition.fcc.gov/mb/audio/bickel/haat_calculator.html

[3] CDBS database downloaded 2017-01-24 03:47:00