

SECOND ADJACENT CHANNEL WAIVER REQUEST  
EULESS, TX  
(Channel 281L1 104.1 MHz)

Applicant requests a waiver for a proposed site that qualifies for a second adjacent waiver as specified in Section 73.807(e) of the Commission's Rules.

Station KVIL (Facility ID # 28694) Highland Park-Dallas, TX, operates on channel 279 and is located 27.5 km from the proposed LPFM site. KVIL operates at 99 kW ERP at 538.3 meters HAAT in the direction of the LPFM tower. KVIL places a 87.7 dBu F(50,50) service contour at the proposed LPFM site.

Using the U/D method, the proposed LPFM station is predicted to produce an undesired interference overlap in respect to KVIL to the proposed LPFM station's 127.7 dBu interference contour ("overlap zone"). The proposed LPFM facility will operate from an antenna height of 39 meters above ground level which places it at 30 meters HAAT.

Undesired-to-Desired Ratio Method

KVIL f(50,50) signal:	87.7 dBu
Second-adjacent protection:	+ 40 dB
Interference-zone boundary:	127.7 dBu
Distance to 127.3 dBu:	m (HAAT = 30 m, ERP <= 0.1 kW)

At 100 watts ERP, the interference zone produces a worst-case circle radius of 29 meters from the center of radiation which is shown on the following map. There is no predicted interference zone in the ground. There are no occupied structures nor major roadways within 29 meters of the radiation center, thus no population will be subject to interference from the proposed station according to the undesired-to-desired ratio method.

KVIL overlap zone map



Station KKDA-FM (Facility ID # 59702) Dallas, TX, operates on channel 283 and is located 27.5 km from the proposed LPFM site. KKDA-FM operates at 99 kW ERP at 538.3 meters HAAT in the direction of the LPFM tower. KKDA-FM places a 87.7 dBu F(50,50) service contour at the proposed LPFM site.

Using the U/D method, the proposed LPFM station is predicted to produce an undesired interference overlap in respect to KKDA-FM to the proposed LPFM station's 127.7 dBu interference contour ("overlap zone"). The proposed LPFM facility will operate from an antenna height of 39 meters above ground level which places it at 30 meters HAAT.

#### Undesired-to-Desired Ratio Method

KKDA-FM f(50,50) signal:	87.7 dBu
Second-adjacent protection:	+ 40 dB
Interference-zone boundary:	127.7 dBu
Distance to 127.3 dBu:	m (HAAT = 30 m, ERP <= 0.1 kW)

At 100 watts ERP, the interference zone produces a worst-case circle radius of 29 meters from the center of radiation which is shown on the following map. There is no predicted interference zone in the ground. There are no occupied structures nor major roadways within 29 meters of the radiation center, thus no population will be subject to interference from the proposed station according to the undesired-to-desired ratio method.

## KKDA-FM overlap zone map



Therefore, based on the information presented, the proposed LPFM station will not create any interference to existing or potential listeners of second adjacent channel stations KVIL and KKDA-FM.