

DENTON TX - WAIVER REQUEST - SECOND ADJACENT CHANNEL

CALL	COL	ST	CH	DIST	ERP	HAAT	FIELD STRENGTH
KPLX	FORT WORTH	TX	258C	69.5	100	547.5	68.223 dBu
KJKK	DALLAS	TX	262C	69.6	97	607.7	69.200 dBu

>>50 WATTS PROPOSED<<

KPLX: At the proposed location signal strength of KPLX is 68.2 dBu (see Map, next page). Interference will occur when the interfering signal exceeds the desired signal by 40 dbu. So the area of predicted interference would then be bounded by the 108.2 dBu contour. The distance to this contour, using free space method, is:

$D = (7.01 \cdot P_1 / 2) / E$, where P is power (watts), E is field strength (v/m), and D is distance to contour (meters):

D = 193 meters.

KJKK: At the proposed location signal strength of KJKK is 69.2 dBu (see Map, next page). Interference will occur when the interfering signal exceeds the desired signal by 40 dbu. So the area of predicted interference would then be bounded by the 109.2 dBu contour. The distance to this contour, using free space method, is:

D = 171.8 meters

D = 193. The below demonstrates a zero-population area proposed within interference area, therefore qualifying for a waiver (road below to tower site unpaved)

