

New LPFM Application
Channel 221-LP100 Owensboro KY
Technical Exhibit

Site Information:

Tower Structure - Building with Antenna on Roof (Owned by Applicant)
Structure Coordinates 37-44-17.9 N 87-07-26.3 W (NAD 83)
Ground Elevation: 122.5 m Overall Structure Height: 17.5 m
Antenna: Circular Antenna Height: 17.0 m.

The Proposed location meets all distance separation requirements with respect to co-channel and first adjacent facilities.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
WBKR	OWENSBORO	KY 223 C	15.71	93.00	157.0	-77.3
	** Adjacent Wavier Requested **					
WJVK	OWENSBORO	KY 219 A	1.16	29.00	36.6	-27.8
	** Adjacent Wavier Requested **					
W221EG	HAWESVILLE	KY 221 D	41.06	39.00	59.3	2.1
W220DV	EVANSVILLE	IN 220 D	40.52	28.00	294.4	12.5
W221EU	CENTRAL CITY	KY 221 D	49.57	32.00	178.4	17.6
WNLJ	MADISONVILLE	KY 219 A	50.60	29.00	219.8	21.6
WKYF	FREDONIA	KY 221 A	99.25	67.00	231.6	32.2
WFPK	LOUISVILLE	KY 220 B	132.46	97.00	57.8	35.5

The applicant requests a waiver with respect to WBKR (FM) CH 223-C located 15.71km away and WKJV (FM) Channel 219A located 1.16km away. The Signal of WBKR(FM) at the proposed location is 93.2dBu (50,50) and WJVK (FM) is 95.0dBu making the corresponding interfering contour of the proposed facility 133.2dBu (50,10) and 135.0dBu(50,10) respectively. The free space distance to the larger of these contours (the 133.2dBu) in a worst case scenario of a single dipole antenna is 15.3m.

The use of any type of FM broadcast antenna will cause the interfering contour to not reach the ground at any point near the tower at any depression angle.

Allocation Distances & Adjacent Channel Waiver Map:

