

TECHNICAL EXHIBIT

This Technical Exhibit is submitted in support of an ***APPLICATION FOR CONSTRUCTION PERMIT FOR A LOW POWER FM BROADCAST STATION*** on behalf of PCRA, Inc., McPherson, KS for a facility to serve the city of McPherson, KS on FM Channel 294.

Channel Availability

The following study reveals that the requested channel meets all distance separation requirements relative to nearby co-channel and 1st, and 2nd adjacent channel licensed facilities, allotments, or applications (of record as of August 28, 2013). See Figure 1.

McPherson, KS LPFM								
PCRA, Inc.								
REFERENCE							DISPLAY DATES	
38 22 32.0 N.		CLASS = L1					DATA	08-28-13
97 36 05.1 W.		Current Spacings to 2nd Adj.					SEARCH	08-30-13
----- Channel 294 - 106.7 MHz -----								
Call	Channel		Location		Azi	Dist	FCC	Margin

KYQQ	LIC	293C0	Arkansas City	KS	153.6	126.18	110.5	15.7
AL9853	RSV-A	293C0	Arkansas City	KS	153.6	126.18	110.5	15.7
KBGL	LIC	295C1	Larned	KS	274.0	137.04	99.5	37.5
KTPK	LIC	295C	Topeka	KS	63.1	163.36	119.5	43.9
K296FD	LIC	296D	Salina	KS	359.2	51.74	7.5	44.2

RSV-R = reserved - needs protection, RSV-A = allocation.								
All separation margins include rounding								

FIGURE 1

Input protection of any relevant FM Translators or Boosters

The closest FM translator authorization is K205CR, which is 6.25 kilometers away from the proposed facility (see Figure 2). K205CR translates the signal of primary station KYFW-FM, Channel 202, Wichita, KS. Since the proposed facility will not occupy a channel that is third adjacent to the primary station of translator

K204CR, and is located more than two miles from the closest FM translator, the Application complies with the provisions of 73.827(a)



FIGURE 2

FAA Considerations

The proposed facility will be located on an FAA approved, FCC registered tower, ASR # 1038591.

Protected Zones; AM stations

Protected zones report for LPFM on channel 294L1 08-30-2013

Lat. 38 22 32.0 Lng. 97 36 05.1, ERP= 0.1 kw, HAAT= 100M

Facility is okay with respect to AM station towers.

Closest AM Facility is KNGL, MCPHERSON, KS, L, ND2 at 234.8° at a distance of 7.1 km

Facility is okay with respect to FCC monitoring stations.

Closest FCC Monitoring Station is 291.5 km= Grand Island, NE

Facility is okay toward West Virginia Quiet Zone. Distance to center = 1581.8 km

Facility is okay toward Table Mountain. Distance to Center = 687.6 km, Azimuth
= 289.0 Degrees True