

Technical Exhibit
La Belle, MO 273D
276.8m RC-AMSL 69.1m Highest Radial
50m AGL
250 Watts

TABLE OF CONTENTS

	Technical Statement
Figure 1	Interference Study Table
Figure 2	HAAT

Interference Compliance

Contour protection, as required by C.F.R. Section 74.1204 to co-channel and first, second and third adjacent channels is demonstrated herein by Figure 1.

Height Above Average Terrain

The proposed HAAT and the predicted 60 dBu contours were calculated in accordance with Section 47 C.F.R. 73.313. The average terrain elevations were calculated along 12 radials using the NED 03 Sec terrain database.

Figure 2 shows the HAAT of the 12 radials. The highest radial is 69.1m above average terrain.

Delivery Method

The instant application will re-broadcast KEFL Kirksville, MO (Fac. ID 171939) via Edina, MO 274D (Fac. ID 156897).

RF Electromagnetic Exposure Analysis

The proposed facility will not have a significant environmental impact and complies with maximum permissible radio frequency electromagnetic exposure limits for a controlled environment, in accordance with OET Bulletin No. 65.

Using a worst case assumption of maximum downward radiation ($F=1.0$) the RF exposure at 2m above ground level is $7.22218 \mu\text{W}/\text{cm}^2$ or 0.7% of the controlled standard. This is inconsequential when added to existing RF on the tower.

The site is fenced and RF warning signs are posted. The power will be reduced or shut off to allow necessary access to the tower.

Figure 1

La Belle, MO 273D

REFERENCE CH# 273D - 102.5 MHz, Pwr= 0.25 kW, HAAT= 57.1 M, COR= 276.8 M
 40 07 22.5 N. Average Protected F(50-50)= 9.94 km
 92 00 26.3 W. Omni-directional

DISPLAY DATES
 DATA 03-05-13
 SEARCH 03-25-13

CH CITY	CALL	TYPE ANT STATE	AZI <--	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
273D La Belle	650186	APP _C_ MO	94.8 274.9	7.49 BNPFT20030317IYW	40 07 02.0 91 55 11.0	0.250 67	30.0 274	9.0 Covenant	-32.9*	-36.6*
272D Canton	636162	APP _C_ MO	89.5 269.8	40.40 BNPFT20030314CKB	40 07 30.0 91 32 00.0	0.250 81	13.9 247	10.0 Covenant	15.6 Network	14.9
271C3 Keosauqua	AL0229	VAC __N IA	3.1 183.2	67.51 RM9694	40 43 48.0 91 57 48.0	25.000 100	4.0 312	38.1 Mctronix	52.9	28.0
274D Monroe City	646589	APP _C_ MO	155.9 336.1	57.50 BNPFT20030317BCB	39 39 00.0 91 44 00.0	0.250 65	14.7 276	10.5 Covenant	32.4 Network	32.6
271C3 Keosauqua	1358865	APP _CX IA	355.4 175.3	76.78 BNPED20100226ADO	40 48 43.6 92 04 51.6	25.000 100	4.0 323	38.3 St. Mary	62.4 Radio Db	37.2 Radio A
220A Kirksville	KCKV	LIC _C_ MO	284.7 104.4	47.20 BLED20091218ADO	40 13 46.0 92 32 38.0	1.000 94	29.3 366	97.7 Lake Area	9.5R Educational	37.7M Broa
220D Kirksville, Etc.	K220CN	LIC _HN MO	284.7 104.4	47.20 BLFT19930830TG	40 13 46.0 92 32 38.0	0.234 93	29.3 366	97.7 Care Broadcasting,	9.5R Inc.	37.7M
271C3 Keosauqua	1357945	APP ZCX IA	3.5 183.6	81.75 BNPED20100226AIE	40 51 27.8 91 56 51.3	25.000 100	4.3 312	41.4 Fairfield Youth	66.8 Advocacy,	38.8
273C Des Moines	KSTZ	LIC _CY IA	324.8 143.7	229.88 BLHRB1104ZZ	41 48 01.0 93 36 27.0	100.000 384	181.3 675	78.4 Saga Communications	39.0 Of Iowa	120.1
273C0 St. Louis	KEZK-FM	LIC _C_ MO	139.4 320.5	225.00 BMLH20061205ABQ	38 34 24.0 90 19 30.0	100.000 313	172.1 466	72.5 Cbs Radio Stations	42.6 Inc.	117.8
273C0 St. Louis	KEZK-FM	LIC _CX MO	139.4 320.5	224.89 BLH20110919ADL	38 34 27.7 90 19 31.5	100.000 309	171.7 462	72.2 Cbs Radio Stations	42.9 Inc.	118.0
273A Chillicothe	AL9555	RSV-A ____ MO	253.9 72.8	145.97 RMinn-24	39 44 50.0 93 38 38.0	6.000 100	88.5 330	29.8	48.5	87.1
219C2 Hannibal	KJIR	LIC _C_ MO	137.1 317.5	64.25 BLED20040202AQF	39 41 54.0 91 29 48.0	12.000 174	29.3 361	97.7 Believers Broadcasting	14.5R Cor	49.8M

Terrain database is NED 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside protected contour.
 « = Station meets FCC minimum distance spacing for its class.

HAAT Calculation

