

Exhibit to KHTS Application
Minor Change
El Cajon, CA
Facility ID: 20697

This exhibit presents the technical details of a change in antenna location to an existing shared antenna¹.

Antenna Location

The proposed shared antenna for KHTS is mounted 38 meters above ground on the tower identified by antenna structure registration number 1014527.

Spacing Compliance

Attached as Figure 1 is a spacing study from the proposed antenna location indicating compliance with the Commission's Section 73.207 rule with the exception of the facilities of KBHR.

Spacing

Spacing to the facilities of KBHR is requested via Section 73.215. Attached as Figure 2 is a contour overlap study which is representative of the results of an "FM Over" study of the proposed facility, indicating no prohibited contour overlap is calculate to result from this proposal. Attached as Figures 3 is a contour map depicting the material contours of this proposal as well as those of KBHR.

Operating Power

The height above average terrain ("HAAT") was determined by excluding all of the 225°, 270°, and 315° as they are over water. The HAAT was thus determined to be 198 meters.

The FCC provided web tool was utilized to determine an equivalent operating power for a class B facility with a 198 meter HAAT to be 29 Kw.

Principal Community Coverage

The principal community of El Cajon, CA and the proposed 70 dBu contour are presented in Figure 4. Over 91% of the

¹ This antenna is licensed for use by KBZT, KFBG, KPBS-FM, KXSN, and KYXY.

population and 88 % of the area of El Cajon are inside the predicted 70 dBu contour.

Radio Frequency Radiation Study and Statement

Due to the complexity of the surrounding RF environment, applicant will take power density measurements prior to filing of an application for license, demonstrating compliance with 73 CFR 1.1306.

Figures and Attachments

Figure 1 - Antenna Location 73.207 Spacing Study

KHTS at Master Antenna Spacing Study							
Citicasters Licenses, Inc.							
REFERENCE						DISPLAY DATES	
32 50 17.00 N.		CLASS = B Int = B				DATA	07-31-20
117 15 00.00 W.		Current Spacings to 3rd Adj.				SEARCH	07-31-20
----- Channel 227 - 93.3 MHz -----							
Call	Channel	Location		Azi	Dist	FCC	Margin
KHTS-FM	LIC-N 227B	El Cajon	CA	127.8	19.57	240.5	-220.9
KBHR	LIC-N 227A	Big Bear City	CA	14.7	165.25	177.5	-12.3
KCBS-FM	LIC 226B	Los Angeles	CA	334.0	172.44	168.5	3.9
KXFG	LIC-D 225A	Menifee	CA	6.4	84.24	68.5	15.7
KYLA	LIC-Z 224A	Fountain Valley	CA	328.7	99.88	68.5	31.4
R17547	VAC 227A	Ejido Rodolfo San	BN	150.1	197.93	163.0	34.9
KDEY-FM	LIC-D 228A	Ontario	CA	348.6	151.38	112.5	38.9
KLJZ	LIC 226C1	Yuma	AZ	94.2	244.45	194.5	50.0
R16813	VAC 225C1	Ensenada	BN	157.9	131.46	79.0	52.5
KDAY	LIC-Z 228A	Redondo Beach	CA	321.8	165.76	112.5	53.3
KKLM	LIC 281A	Murrieta	CA	8.2	70.40	14.5	55.9
KKLM	CP 281A	Murrieta	CA	4.9	71.58	14.5	57.1
R29255	ADD 229A	Ensenada	BN	152.1	123.75	65.0	58.8
KCLB-FM	LIC 229B	Coachella	CA	41.3	143.27	73.5	69.8
KCLB-FM	LIC 229B	Coachella	CA	41.3	143.27	73.5	69.8
AL4779	VAC 229A	Ojos Negros	BN	138.7	134.98	65.0	70.0
KKUU	LIC 224A	Indio	CA	39.3	148.90	68.5	80.4
KLLI	LIC-D 230B	Los Angeles	CA	334.1	171.70	73.5	98.2
AL9219	VAC 281B	Ensenada	BN	152.0	123.48	20.0	103.5
AL2989	VAC 228C2	Ehrenberg	AZ	71.1	278.87	168.5	110.4

Reference station has protected zone issue: Mexico

All separation margins include rounding

Figure 2 - Antenna Location Contour Study

KHTS at Master Antenna Spacing Study												
Citicasters licenses, Inc.												
REFERENCE	CH#	227B	-	93.3 MHz,	Pwr= 29 kw,	HAAT= 198.0 M,	COR= 271 M	DISPLAY DATES				
32 50 17.00 N.								DATA 07-31-20				
117 15 00.00 W.								SEARCH 07-31-20				
								73.215 Omni-directional				
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*	
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)	
227B	KHTS-FM	LIC N		127.8	19.57	32 43 48.20	50.000		--Reference--			
El Cajon		CA		307.9	BLH20021112ABY	117 05 05.10	147	240	Citicasters Licenses, Inc.			
227A	KBHR	LIC N		14.7	165.60	34 16 41.00	1.300	64.8	10.8	35.7	21.8	
Big Bear City		CA		194.9	BLH20050103AJG	116 47 34.10	214	2115	Parallel Broadcasting, Inc			
226B	KCBS-FM	LIC		334.0	172.44	34 13 55.00	27.500	171.8	117.0	168.5R	3.9M	
Los Angeles		CA		153.6	BLH20100818AAQ	118 04 21.20	1074	1975	Entercom License, LLC			
225A	KXFG	LIC D		6.4	84.24	33 35 34.40	6.000	5.5	38.7	68.5R	15.7M	
Menifee		CA		186.5	BMLH20130301ABD	117 08 53.90	100	562	Entercom License, LLC			
224A	KYLA	LIC Z		328.7	99.88	33 36 20.10	0.690	3.0	25.5	68.5R	31.4M	
Fountain Valley		CA		148.4	BMLD20121211ABJ	117 48 38.20	293	376	Educational Media Foundati			
227A	R17547	VAC		150.1	197.93	31 17 27.32	3.000	98.2	24.0	163.0R	34.9M	
Ejido Rodolfo San		BN		330.6		116 12 37.96	100	337				
228A	KDEY-FM	LIC D		348.6	151.38	34 10 32.00	5.000	101.8	59.4	112.5R	38.9M	
Ontario		CA		168.5	BLH20080521AEA	117 34 29.20	-40	927	Meruelo Radio Holdings, LL			
226C1	KLJZ	LIC		94.2	244.45	32 39 06.20	100.000	92.1	34.1	194.5R	50.0M	
Yuma		AZ		275.6	BMLH20150107AAJ	114 39 03.80	25	76	Monstermedia, LLC			
225C1	R16813	VAC		157.9	131.46	31 44 29.29	100.000	14.8	72.0	79.0R	52.5M	
Ensenada		BN		338.2		116 43 36.02	299	328				
228A	KDAY	LIC Z		321.8	165.76	34 00 19.00	4.200	61.0	29.7	112.5R	53.3M	
Redondo Beach		CA		141.2	BLH20090618ADE	118 21 47.30	117	184	Meruelo Radio Holdings, LL			
281A	KKLM	LIC		8.2	70.40	33 27 58.80	4.100	0.0	0.0	14.5R	55.9M	
Murrieta		CA		188.2	BLED20180301AAC	117 08 29.90	121	518	Educational Media Foundati			
281A	KKLM	CP		4.9	71.58	33 28 52.10	1.200	0.0	0.0	14.5R	57.1M	
Murrieta		CA		184.9	BPED20190131AAY	117 11 02.10	226	630	Educational Media Foundati			
229A	R29255	ADD		152.1	123.75	31 51 10.28	3.000	2.3	24.0	65.0R	58.8M	
Ensenada		BN		332.4		116 38 12.03	100	221				
229B	KCLB-FM	LIC		41.3	143.27	33 48 06.10	26.500	12.9	86.8	73.5R	69.8M	
Coachella		CA		221.9	BMLH20111114BUJ	116 13 31.00	197	564	Alpha Media Licensee LLC			
229B	KCLB-FM	LIC		41.3	143.27	33 48 06.10	26.500					
Coachella		CA		221.9	0000105532	116 13 31.00	197	564	Alpha Media Licensee LLC			
229A	AL4779	VAC		138.7	134.98	31 55 22.28	3.000	1.9	24.0	65.0R	70.0M	
Ojos Negros		BN		319.2		116 18 19.01	100	840				
224A	KUUU	LIC		39.3	148.90	33 52 15.10	4.200	7.5	62.2	68.5R	80.4M	
Indio		CA		219.9	BLH20021210ABQ	116 13 40.00	120	844	Alpha Media Licensee LLC			
230B	KLII	LIC D		334.1	171.70	34 13 36.00	18.500	7.0	110.6	73.5R	98.2M	
Los Angeles		CA		153.6	BLH20060323ABU	118 04 02.20	917	1803	Xkos Radio Holdings, LLC			
281B	AL9219	VAC		152.0	123.29	31 51 20.29	50.000	0.0	0.0	20.0R	103.3M	
Ensenada		BN		332.4		116 38 12.03	150	277				
228C2	AL2989	VAC		71.1	278.87	33 36 54.10	50.000	119.6	67.3	168.5R	110.4M	
Ehrenberg		AZ		252.7	RM11692	114 24 16.84	150	445	S And H Broadcasting, LLC			
Terrain database is NDC 30 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= - Zone 1A, 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 restricted contour. « = Station meets FCC minimum distance spacing for its class. Reference station has protected zone issue: Mexico												

Figure 3 - KHTS and KBHR 73.215 Contour Map

KHTS at Master Antenna Spacing Study
Citicasters Licenses, Inc.

FMCommander Single Allocation Study - 07-31-2020 - NGDC 30 SEC
KHTS-PRP's Overlaps (In= 35.73 km, Out= 21.81 km)

KHTS-PRP CH 227 B 73.215 N
Lat= 32 50 17.00, Lng= 117 15 00.00
29.0 kW 198 m HAAT, 271 m COR
Prot.= 54 dBu, Intef.= 40 dBu

KBHR CH 227 A 73.215 N BLH20050103AJG
Lat= 34 16 41.00, Lng= 116 47 34.10
1.3 kW 214 m HAAT, 2115 m COR
Prot.= 60 dBu, Intef.= 34 dBu



Figure 4 - 70 dBu Contour Map

