

TECHNICAL STATEMENT  
KIH1(FM)(CP) FLOWER POT ARIZONA, CHANNEL 209A  
CHEYENNE BROADCASTING FOUNDATION, INC.  
SCHEDULE 340 MINOR MODIFICATION OF CONSTRUCTION PERMIT  
APRIL 2022

This Technical Statement is prepared on behalf of Cheyenne Broadcasting Foundation, Inc. (“CBF”). CBF is filing a modification of Construction Permit (“CP”) for its new NCE FM service, (FM), Flower Pot, Arizona, facility ID 767298, CP # 0000167313. CBF is now proposing KIH1(FM) on channel 209A for Flower Pot, Arizona, with 0.007 Kilowatts (7 watts) Effective Radiated Power (“ERP”), circular polarized antenna system and a Center of Radiation height of 1999 Meters Above Mean Sea Level. The antenna will also be located 728.5 Meters Above Average Terrain on a non-registered tower, site coordinates 34° 28’ 09.5”, -111° 52’ 30.1, with an overall height of 12.5 meters.

The new operation was evaluated for compliance with all the Commission technical rules and regulations for new Non-Commercial FM broadcast stations.

Compliance with Section 73.509 regarding interference to other stations was determined as follows:

Figure 1 – Channel Interference Study. Shows compliance with interference contours towards other stations.

Figure 2 – Detailed contour overlap study conducted against KJTA(FM) Flagstaff, AZ, facility ID 32367, channel 210C2.

Figure 3 – Predicted 60 dBμ primary coverage contour for compliance with community coverage.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY

REFERENCE		CH# 209A - 89.7 MHz, Pwr= 0.007 kw, HAAT= 728.5 M, COR= 1999 M							DISPLAY DATES		
34 28 09.50 N.		Average Protected F(50-50)= 13.26 km							DATA 04-23-22		
111 52 30.10 W.		Omni-directional							SEARCH 04-23-22		
CH CITY	CALL	TYPE STATE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
				<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
209A	KIHI	CP _CN		311.5	13.86	34 33 06.48	0.005		---Reference---		
Flower Pot		AZ		131.4	0000167313	111 59 18.60	315	1663	Cheyenne Broadcasting Foun		
210C2	KJTA	LIC _CN		16.4	89.20	35 14 25.00	1.000	73.8	49.4	0.8	14.6
Flagstaff		AZ		196.5	BMLED20181019ACE	111 35 51.60	606	2839	Family Life Broadcasting,		
210C	KLVA	LIC DVN		149.1	95.38	33 43 52.10	45.000	83.0	46.8	4.8	20.1
Superior		AZ		329.4	BLED20100305ABC	111 20 41.40	619	1748	Educational Media Foundati		
208C1	KBAQ	LIC DCN		188.0	127.30	33 19 57.60	30.000	109.5	74.4	6.6	36.3
Phoenix		AZ		7.9	BMLED20181213ACI	112 03 57.70	474	841	Maricopa Co Comm Coll Dist		
209A	AL07578	ALO _		235.0	96.58	33 58 05.10	6.000	68.3	15.8	15.9	30.3
Wickenburg		AZ		54.5		112 43 55.60	100	862			
209A	VA9274	VAC _N		235.0	96.58	33 58 05.11	6.000	68.3	15.8	15.9	30.3
Wickenburg		AZ		54.5		112 43 55.65	100	862	From CDBS		
208C3	KJZA	LIC _CN		339.7	86.51	35 12 00.00	0.250	54.7	35.9	17.8	27.7
Drake		AZ		159.5	BMLED20171004ABO	112 12 20.60	770	2845	En Familia, Inc.		
212C	KFLR-FM	LIC DCN		187.9	127.12	33 20 02.10	100.000	12.7	87.6	103.2	39.5
Phoenix		AZ		7.8	BLED20070912ABQ	112 03 46.50	483	852	Family Life Broadcasting,		
207A	KNAQ	LIC _CN		272.4	60.55	34 29 24.10	0.100	0.7	18.0	48.1	41.4
Prescott		AZ		92.0	BLED19971209KD	112 32 01.60	483	2175	Northern Arizona Universit		
207A	KJPN	LIC _CN		107.7	65.84	34 17 16.10	0.100	0.7	21.2	50.8	44.1
Payson		AZ		288.1	BLED20120911AAF	111 11 36.40	299	1946	Payson Seventh-Day Adventi		
211A	KJZP	LIC DCN		272.4	60.58	34 29 25.10	0.027	0.2	10.3	48.6	47.1
Prescott		AZ		92.0	BMLED20171004ABQ	112 32 02.60	486	2174	En Familia, Inc.		
206C0	KLVK	LIC DCN		213.9	117.08	33 35 33.10	30.000	3.8	60.3	101.5	54.7
Fountain Hills		AZ		33.5	BLED20100720AIX	112 34 51.60	703	1232	Educational Media Foundati		
209A	768400	CP _CN		61.2	129.68	35 01 25.10	1.000	35.6	10.2	79.3	60.2
Winslow		AZ		241.9	0000167557	110 37 41.40	7	1532	American National Radio Ne		
211A	VA0003	VAC _N		139.6	155.99	33 23 44.21	6.000	4.1	44.5	137.8	108.0
Globe		AZ		320.2		110 47 07.39	100	1356	From CDBS		
211A	AL08102	ALO _		139.6	155.99	33 23 44.20	6.000	4.1	44.5	137.8	108.0
Globe		AZ		320.2		110 47 07.40	100	1356			
208C3	KRCI	LIC _CN		99.0	177.10	34 12 22.10	1.000	53.1	35.0	109.3	116.3
Pinetop-Lakeside		AZ		280.1	BLED20090217AAO	109 58 36.30	343	2390	Truth And Life Ministries		
208C	KAIH	CP DCN		273.1	213.15	34 33 04.68	25.000	88.6	59.5	113.0	132.0
Lake Havasu City		AZ		91.8	0000161997	114 11 38.64	840	1474	Advance Ministries, Inc. D		
211A	KRXC	CP DCN		89.9	135.21	34 27 42.60	6.000	1.8	17.9	118.8	113.3
Taylor		AZ		270.8	0000165518	110 24 12.40	80	1993	New Path Communications		
209C2	KAZK	CP DCN		155.5	246.76	32 26 31.10	0.250	118.1	47.7	115.6	165.7
Catalina		AZ		336.1	0000158641	110 46 53.10	1218	2768	Educational Media Foundati		

Terrain database is GLOBE 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 2, 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 2 - CONTOUR STUDY WITH KJTA(FM) CH. 210C2  
KIHICP) FLOWER POT, AZ, CH. 209A

FMCommander Single Allocation Study - 04-23-2022 - GLOBE 30 Sec  
KIHIC's Overlaps (In= 0.77 km, Out= 14.57 km)

KIHIC CH 209 A

Lat= 34 28 09.50, Lng= 111 52 30.10  
0.007 kW 728.5 m HAAT, 1999 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

KJTA CH 210 C2 BMLED20181019ACE

Lat= 35 14 25.00, Lng= 111 35 51.60  
1.0 kW 606 m HAAT, 2839 m COR  
Prot.= 60 dBu, Intef.= 54 dBu

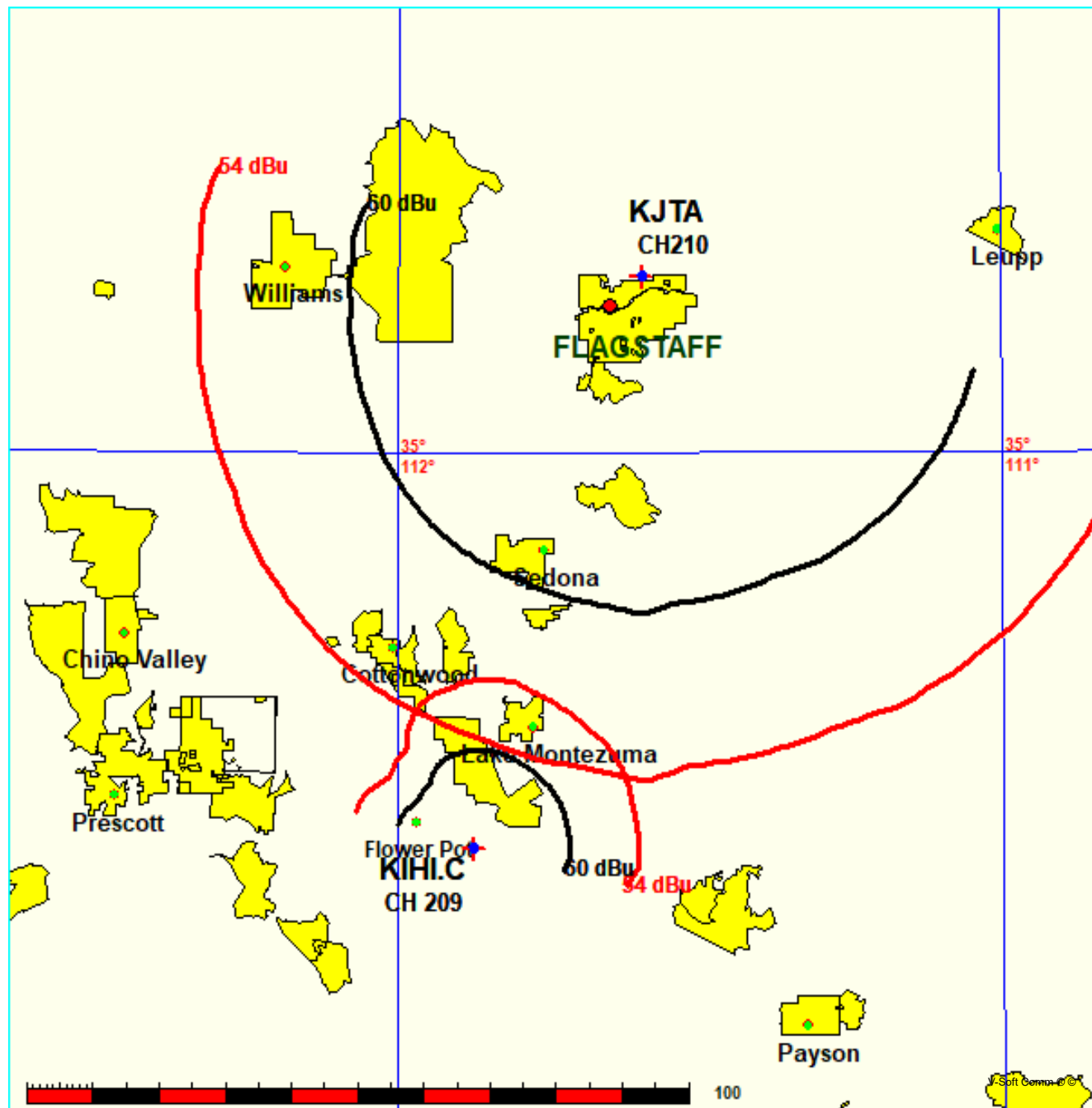


FIGURE 3 - PREDICTED 60 DBU CONTOUR  
KIHI FLOWER POT, AZ, CH. 209A

Coverage Study - GLOBE 30 Sec  
04-23-2022

KIHI-C CH209 A , 0.007 kW, 728.5m HAAT, 1999.0m COR AMSL  
Service Contour = 60 dBu. Population = 8,353

