

TECHNICAL STATEMENT AND WAIVER REQUEST  
K243BP CASA GRANDE, ARIZONA, CH. 271D  
MOUNTAIN COMMUNITY TRANSLATORS, LLC  
FCC FORM 349  
AUGUST 2017

This Technical Statement is made in support of a modification of FM translator station, K243BP at Casa Grande, Arizona, facility ID 146671. K243BP seeks to relocate to a new site and remain a “fill-in” for KLVA(FM) Maricopa, Arizona, facility ID 2749. K243BP seeks to make technical changes to increase its ERP to 250 watts, and add a directional antenna. K243BP also seeks to change its channel of operation from channel 243D to 271D. This request is being made since K243BP is being displaced by a new Construction Permit for KIKO-FM Claypool, Arizona, facility ID 11894, BPH-20160927ADT. KIKO-FM is changing channel from 247C2 to 243C2, which is co-channel to the current operation of K243BP. By this application, it is respectfully requested that the Commission waive §74.1233(a)(1) which defines a minor change application by an FM translator station as “changes to first, second or third adjacent channels, or intermediate frequency channels”. A channel search of all available minor change channels would require a reduction of present coverage by K243BN. A channel search of all available non-reserved channels revealed that channel 271D would produce the best coverage for K243BN without creating any prohibit overlap with other existing or proposed facilities. The following will show that the new proposed operation of K243BP on channel 271D will meet all of the Commissions technical requirements for an FM translator station.

The new proposed operation of K243BP specifies a maximum Effective Radiated Power of 0.25 kilowatts (250 watts). It will operate with a directional antenna with an “off the shelf” type antenna, or a Scala CA-5-CP with dual polarization. The antenna will be mounted on an existing registered tower, # 1257629, with an overall height of 33.5 meters above the ground. The antenna will be mounted with a Center of Radiation of 10 meters above the ground, and 777 meters Above Mean Sea Level. The coordinates of this tower are located at N 33° 00’ 07”, W 111° 40’ 23”, NAD 27.

Figure 1 is a detailed channel interference study conducted from the current license site of K243BP showing the new prohibitive overlap that would be caused to KIKO-FM Claypool, Arizona on channel 243C2 under the technical facilities of it recently granted Construction Permit, BPH-20160927ADT.

Figure 2 is a detailed interference study conducted on channel 271D with the new proposed facilities. It shows that the new operation of K243BP will not cause any interference to any existing or proposed FM stations on any of the pertinent same channel or adjacent channels to channel 271 with the exception of third adjacent channel station, KALV-FM Phoenix, Arizona, facility ID 63913, operating on channel 268C and second adjacent channel station, KNIX-FM Pheonix, Arizona, facility ID 7698, channel 273C.

Figure 3 shows the coverage area for the worse case 100.0 dBμ interference contour F(50-10) and shows that there is no population in the area of interference. The applicant, Mountain Community Translators, LLC, respectfully requests a waiver of C.F.R. 74.1204(d) of the Commission's rules based on the fact that there is no population within the area of predicted interference. There are no homes nearby the proposed existing tower site, which is a privately owned with private access. The transmitter

building is uninhabited and does not have indoor plumbing. The area around the tower base is fenced. Should any unforeseen actual interference be caused, the licensee will immediately cease broadcasting with K243BP until such interference can be eliminated.

The proposed operation of K243BP Casa Grande, Arizona will be considered a “Fill-In” operation for KLVA(FM) Maricopa, Arizona. KLVA(FM) operates with 50 kilowatts at 150 meters HAAT on Channel 288C2. Figure 5 shows that the proposed 60 dBμ contour for the proposed K243BP will not extend beyond the 60 dBμ contour of KLVA. Since this is a “Fill-In” translator, the maximum ERP will not exceed the maximum permissible ERP of 250 watts in any azimuth.

Figure 6 shows the present and proposed 60 dBμ contours of K243BN. It shows that there will be overlap between the two facilities as required.

It was found that the new proposed operation of K243BP Casa Grande, Arizona on channel 271D, will satisfy all of the required commission rules and regulations for an FM translator station.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY

K243BP CASA GRANDE, AZ, CH. 243D

REFERENCE CH# 243D - 96.5 MHz, Pwr= 0.06 kW, HAAT= 0.0 M, COR= 675 M  
 32 49 18.0 N. Average Protected F(50-50)= 4.94 km  
 111 42 42.0 W. Omni-directional

DISPLAY DATES  
 DATA 07-18-17  
 SEARCH 07-18-17

CH CITY	CALL	TYPE STATE	ANT AZ	AZI ---	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
243C Claypool	KI KO-FM	RSV-A	---	57.5 238.0	97.35	33 17 20.0 110 49 45.0	100.000 600	206.4 1945	96.4 1tv.com, Inc.	-122.3*	-45.2
243C Claypool	KI KO-FM *	APP DCX AZ	---	57.5 238.0	97.35 BPH20170620ABH	33 17 20.0 110 49 45.0	34.000 966	196.5 2326	90.6 1tv.com, Inc.	-111.2*	-39.8
243D Casa Grande	K243BP	CP AZ	---	180.0 0.0	0.03 BPFT20160721ABF	32 49 17.0 111 42 42.0	0.085	53.4 712	16.5 Mountain Community	-66.5*	-60.1*
243D Casa Grande	K243BP	LIC AZ	---	0.0 0.0	0.00 BLFT20160418AAL	32 49 18.0 111 42 42.0	0.060	46.5 675	14.0 Mountain Community	-60.5*	-60.5*
243C2 Claypool	KI KO-FM *	CP AZ	---	57.5 238.0	97.35 BPH20160927ADT	33 17 20.0 110 49 45.0	0.680 1015	127.9 2352	54.2 1tv.com, Inc.	-44.2*	-3.2
245C Phoenix	KMXP	LIC AZ	---	330.4 150.2	65.48 BMLH19941024KC	33 20 03.0 112 03 36.0	100.000 475	12.4 834	85.2 Citicasters Licenses, Inc.	38.9	-20.3*
241C Tucson	KLPX	LIC AZ	---	138.6 318.9	84.62 BLH19900503KD	32 14 56.0 111 06 59.0	100.000 595	13.0 1360	89.5 Arizona Lotus Corp.	58.3	-5.4*
243D Laveen	K243BN	CP AZ	---	337.8 157.6	92.94 BPFT20150713ABF	33 35 47.0 112 05 31.0	0.250	70.3 688	23.4 Mountain Community	8.5	22.4
243D Laveen	K243BN	LIC DC AZ	---	337.8 157.6	92.94 BLFT20140909ABX	33 35 47.0 112 05 31.0	0.250 279	67.5 688	21.7 Mountain Community	11.7	23.3
243D Tucson	K243CC	LIC DV AZ	---	138.6 318.9	84.63 BLFT20170410AEX	32 14 57.0 111 06 57.0	0.205	22.4 1339	3.0 Educational Media Foundati	51.6	24.4
243C0 Show Low	KRFM	LIC AZ	---	46.4 227.3	225.02 BMLH20120917ACR	34 12 20.0 109 56 26.0	100.000 303	180.9 2378	78.1 Petracom Of Holbrook, LIc	30.3	100.8
241D Ft McDowell	K241BQ	LIC DV AZ	---	330.4 150.2	65.57 BLFT20170303ABM	33 20 05.0 112 03 39.0	0.120	0.3 797	12.8 Riviera Broadcasting, LIc	51.1	48.5
243C Sonoma	NEW-FM	SO	---	230.1 49.3	187.96	31 43 44.0 113 14 15.0	0.000	0.0 181	92.0 174.3		50.5
246C3 Green Valley	KYWD	CP ZCX AZ	---	136.4 316.9	125.09 BPH20141014ABL	32 00 10.7 110 47 48.7	25.000 100	5.7 1063	51.5 Capstar Tx, LIc	106.1	73.0
246A Green Valley	KYWD	LIC AZ	---	148.4 328.8	109.88 BLH20030424AAM	31 58 37.0 111 06 04.0	1.750 187	2.5 1227	35.7 Capstar Tx, LIc	94.1	73.3
244B Nogales	XHNGSFM	USE SO	---	156.3 336.7	180.85	31 19 49.0 110 56 42.0	50.000 150	90.6 1424	65.0 77.1		87.8
241D Phoenix	K241CS	APP DC AZ	---	338.1 157.9	92.49 BPFT20170206ACK	33 35 39.0 112 05 08.0	0.250	0.1 663	4.8 Gabrielle Broadcasting Li c	78.3	83.8
241D Phoenix	K241CS	LIC DV AZ	---	338.1 157.9	92.49 BLFT20170126ABP	33 35 39.0 112 05 08.0	0.200	0.0 663	1.1 Gabrielle Broadcasting Li c	78.4	87.3
240D Buckeye	K240DC	CP DV AZ	---	316.7 136.3	114.53 BPFT20160104AMC	33 34 09.0 112 33 33.0	0.250	0.7 1223	29.4 Advance Ministries, Inc. D	99.5	80.6
240D Buckeye	K240DC	LIC AZ	---	308.8 128.4	99.70 BLFT20070510ACT	33 22 51.0 112 32 53.0	0.060 -55	0.5 272	4.9 Advance Ministries, Inc. D	84.8	94.2
244B Nogales	XHNGSFM	OPE SO	---	156.8 337.2	181.40	31 19 10.0 110 57 36.0	38.400 37	72.8 1323	65.0 95.5		88.3
242A Star Valley	1759589	RSV-A	---	14.7 194.9	164.42	34 15 16.0 111 15 26.0	6.000 100	63.2 1614	41.2 Kona Coast Radio, LIc	88.5	98.0
242C3 Wickenburg	KSWG	LIC ZCX AZ	---	321.0 140.4	158.60 BLH20020311ABB	33 55 34.0 112 47 40.0	6.400 197	39.4 943	26.1 Barna Broadcasting, LIc	105.0	110.7
242C3 Wickenburg	KSWG	APP ZCX AZ	---	320.9 140.4	158.22 BPH20170510AAZ	33 55 22.0 112 47 34.0	5.300 217	32.5 960	21.8 Barna Broadcasting, LIc	111.5	114.1
242A Star Valley	1759499	APP AZ	---	14.9 195.2	164.90 BNPH20170621ABC	34 15 26.0 111 14 58.0	0.750 -33	28.8 1489	19.1 Kona Coast Radio, LIc	122.7	118.1

CH CITY	CALL	TYPE STATE	ANT	AZI ---	DI ST FILE #	LAT LNG	PWR(KW) HAAT (M)	INT(km) COR (M)	PRO(km) LICENSEE	Page # *IN* (Overlap in km)	*OUT*
240C0 Cottonwood	KKLD	LIC NCX AZ		349.9 169.6	210.24 BMLH20100428AEO	34 41 12.0 112 07 02.0	21.000 799	8.1 2388	77.2 Yavapai	188.1 Broadcasting Corpo	132.4
242L1 Payson	KRIM-LP	LIC ____ AZ		13.0 193.2	163.12 BLL20150623ABI	34 15 13.0 111 18 39.0	0.004 146	1612	138.2 Payson Council For	134.4 The Mus	
244C2 Williams	KWMX	LIC _CN AZ		351.5 171.3	259.11 BLH19970609KA	35 07 52.0 112 08 03.0	10.500 325	80.8 2390	54.7 Grenax	164.4 Broadcasting Li, LI	181.5
243A Quartzsite	R14926	RSV-R ____ AZ		292.9 111.5	253.63	33 40 58.0 114 13 59.0	6.000 100	68.3 429	15.8 170.9	183.7	
243A Douglas	KDAP-FM	LIC _CN AZ		128.1 309.3	260.82 BLH19901121KB	31 21 18.0 109 33 06.0	3.000 9	64.6 1271	17.7 Donna Henderson,	182.9 Personal	199.0
243A Quartzsite	KBUX	LIC _CX AZ		292.9 111.5	253.65 BLH20170508AAJ	33 41 02.0 114 13 58.0	3.000 -47	53.3 281	13.2 Marvin Vosper	186.0	192.6
246C2 Kachina Village	AL9582	RSV-A ____ AZ		4.4 184.6	238.84 RM11518	34 58 06.0 111 30 29.0	50.000 150	4.2 2327	39.4 220.8	188.1	
246C2 Kachina Village	KBTK	LIC _C_ AZ		4.4 184.6	238.84 BLH20161021ABF	34 58 06.0 111 30 29.0	5.000 444	4.1 2622	47.9 Grenax	220.9 Broadcasting Li, LI	188.9
242A Caborca	AL0480	VAC ____ SO		190.2 10.0	239.93	30 41 50.0 112 09 29.0	3.000 100	28.5 400	24.0 198.1	196.0	
244D Sedona	KWMX-FM2	LIC DC_ AZ		358.3 178.3	225.41 BLFTB20010821AAT	34 51 11.0 111 47 01.0	0.099	10.8 1475	7.5 Grenax	200.7 Broadcasting Li, LI	196.7
242C San Felipe	AL8313	VAC ____ BN		236.7 55.0	355.47	31 01 36.0 114 49 46.0	100.000 600	141.9 709	92.0 199.8	242.7	
242AA Santa Ana	R17224	VAC ____ SO		167.4 347.7	259.81	30 32 23.0 111 07 10.0	6.000 100	46.3 836	28.0 200.3	212.0	
240C3 Wellton	KUKY	LIC _CX AZ		266.9 85.4	246.54 BLH20120803AAD	32 40 22.0 114 20 11.2	1.600 385	2.6 534	42.7 Hi spanic Target	229.7 Media Inc.	203.2
243A Lagunitas	AL1171	VAC ____ BN		264.4 82.7	301.78	32 31 05.0 114 54 58.0	3.000 100	75.4 127	24.0 212.2	230.6	
245A Caborca	AL8589	VAC ____ SO		190.2 10.0	239.93	30 41 50.0 112 09 29.0	3.000 100	1.9 400	24.0 224.7	215.4	
244D Flagstaff	KWMX-FM1	LIC DCN AZ		2.2 182.3	268.54 BLFTB19971126TB	35 14 27.0 111 35 48.0	0.100 601	33.9 2835	21.8 Grenax	220.8 Broadcasting Li, LI	223.4
244C3 Lake Havasu City	KRCY-FM	LIC _CX AZ		310.6 129.3	299.63 BLH20080731ACG	34 33 06.0 114 11 37.0	0.260 825	55.0 1451	36.0 Rick L. Murphy	230.3	241.5
245A Algodones	AL8864	VAC ____ BN		268.1 86.5	283.58	32 42 09.0 114 44 30.0	3.000 100	2.4 166	24.0 267.0	259.0	
241A Nacozari De Garcia	AL0055	VAC ____ SO		199.1 18.6	287.55	30 22 25.0 112 41 30.0	3.000 100	2.5 214	24.0 271.7	263.0	
245C1 Mexicali	6891	____ BN		263.4 81.5	339.22	32 25 20.0 115 18 12.0	0.000	0.0 69	72.0 325.0	266.7	
241B Puerto Libertad	AL8384	VAC ____ SO		196.1 15.6	336.60	29 54 34.0 112 40 52.0	50.000 150	5.0 162	65.0 318.3	270.5	
245A Puerto Lobos	AL9054	VAC ____ SO		200.7 20.1	303.05	30 16 00.0 112 49 35.0	3.000 100	1.9 158	24.0 287.8	278.5	
246B San Felipe	AL0896	VAC ____ BN		236.7 55.0	355.47	31 01 36.0 114 49 46.0	50.000 150	7.8 259	65.0 333.9	289.4	
241A Nacozari De Garcia	R43099	ADD ____ SO		144.4 325.4	332.65	30 22 25.0 109 41 30.0	3.000 100	1.7 1401	24.0 317.7	308.1	
241A Nacozari De Garcia	R28956	DEL ____ SO		144.4 325.4	332.65	30 22 25.0 109 41 30.0	3.000 100	1.7 1401	24.0 317.7	308.1	
242A Calipatria	KSSB	LIC _CX CA		276.4 94.3	356.81 BLH20140623AAK	33 07 13.0 115 30 43.0	6.000 25	23.5 -16	15.8 Lazer Licenses, LIc	319.0	319.4

Terrain database is NGDC 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= 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 restricted contour.  
Reference station has protected zone issue: Mexico

\* KIKO-FM has recently been granted a Construction Permit to change channels from 247C2 to channel 243C2. This change will create prohibitive overlap between same channel K243BP and KIKO-FM. Thus adisplacement channel of 271D is hereby being requested.

FIGURE 2 - DETAILED CHANNEL INTERFERENCE STUDY

K243BP CASA GRANDE, AZ, CH. 271D 33 00 07.0 N. HAAT= 0.0 M, COR= 777 M 111 40 23.0 W. Average Protected F(50-50)= 7.09 km Standard Directional												DISPLAY DATES DATA 08-08-17 SEARCH 08-08-17	
CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)		
271D	K243BP	APP DV_		0.0	0.00	33 00 07.0	0.180	65.6	21.4	-88.0*	-89.2*		
Casa Grande		AZ		0.0	BMPFT20170718AGR	111 40 23.0		777	Mountain Community Transla				
271C1	KFMA	LIC ZCX		142.1	100.05	32 17 23.0	100.000	163.1	65.0	-73.1*	3.2		
Oro Valley		AZ		322.4	BLH20050510ABX	111 01 06.0	81	886	Arizona Lotus Corp.				
268C	KALV-FM	LIC _CN		315.4	51.51	33 19 52.0	100.000	12.8	88.1	21.6	-36.9*		
Phoenix		AZ		135.2	BLH6108	112 03 46.0	530	889	Cbs Radio Stations Inc.				
273C	KNIX-FM	LIC _CY		315.4	51.77	33 19 58.0	100.000	12.5	85.9	22.2	-34.3*		
Phoenix		AZ		135.2	BMLH19870814KA	112 03 53.0	494	853	Cc Licenses, Llc				
271C	KAHM	CP NCX		335.1	151.07	34 14 03.0	25.500	165.0	73.9	-34.1*	12.2		
Spring Valley		AZ		154.7	BPH20100813BHN	112 22 01.0	852	2385	Southwest Fm Broadcasting				
271C	KAHM	LIC _CY		347.8	191.38	34 41 14.0	58.000	184.3	85.9	-14.7	39.9		
Prescott		AZ		167.5	BLH19960111BK	112 07 01.0	770	2356	Southwest Fm Broadcasting				
270D	K270BZ	APP DC_		315.8	51.68	33 20 04.8	0.250	34.2	22.5	0.2	6.5		
Phoenix		AZ		135.6	BPFT20170718AAI	112 03 39.5		797	Riviera Broadcasting, Llc				
270D	K270BZ	LIC DC_		315.8	51.68	33 20 04.8	0.250	33.2	16.5	2.1	4.5		
Phoenix		AZ		135.6	BLFT20151204AED	112 03 39.5		797	Riviera Broadcasting, Llc				
270C	AL4915	___		221.5	168.43	31 51 41.0	100.000	135.7	92.0	23.2	63.9		
Sonoita		SO		40.8		112 51 16.0	600	1060					
218C	KJZZ	CP _CX		315.4	51.77	33 19 58.0	100.000	0.7	20.8	28.5R	23.3M		
Phoenix		AZ		135.2	BPED20160909ABH	112 03 53.0	490	856	Maricopa County Community				
218C	KJZZ	LIC _CX		315.4	51.77	33 19 58.0	100.000	0.7	20.8	28.5R	23.3M		
Phoenix		AZ		135.2	BMLE20090127ACM	112 03 53.0	490	856	Maricopa County Community				
270A	AL4321	RSV-A ___		56.4	95.72	33 28 31.0	6.000	37.9	26.3	38.6	39.3		
Miami		AZ		236.9	RM11155	110 48 51.0	100	1333					
270A	KQSS	LIC NCX		60.6	92.72	33 24 30.0	6.000	31.7	15.8	45.2	46.5		
Miami		AZ		241.0	BLH20060821ABQ	110 48 14.0	-24	1244	Globecasting, Inc.				
269D	K269FV	LIC DC_		147.9	98.47	32 14 57.0	0.250	1.1	30.5	87.7	67.7		
Oro Valley		AZ		328.2	BLFT20121022ABY	111 06 59.0	574	1345	Family Life Broadcasting,				
270B	AL2579	VAC ___		176.0	171.10	31 28 00.0	50.000	73.0	65.0	88.1	85.9		
Sasabe		SO		356.1		111 32 50.0	150	1219					
271A	AL9102	VAC ___		212.3	168.58	31 42 59.0	3.000	68.7	24.0	90.0	112.8		
Colonia Reforma		SO		31.8		112 37 30.0	100	607					
274D	K274AQ	LIC _CN		141.3	105.60	32 15 30.0	0.050	0.5	7.3	95.0	97.7		
Tucson		AZ		321.7	BLFT19981006TA	110 58 12.0	-37	768	world Radio Network, Inc.				
217C2	KXCI	LIC DCN		125.8	110.88	32 24 54.0	0.340	0.7	20.8	14.5R	96.4M		
Tucson		AZ		306.3	BLED19910917KB	110 42 56.0	1110	2646	Foundation For Creative Br				
272C1	KWRQ	LIC NCX		92.6	220.02	32 53 23.0	4.300	91.8	61.9	114.9	145.0		
Clifton		AZ		273.9	BLH20020419AAQ	109 19 26.0	690	1977	Mcmurray Communications, I				
274B	XHQTFM	OPE _HN		160.1	198.73	31 19 10.0	9.650	2.8	65.0	186.8	133.4		
Nogales		SO		340.5		110 57 36.0	-29	1257					
274B	XHQTFM	USE ___		160.1	198.73	31 19 10.0	50.000	7.7	65.0	181.8	133.4		
Nogales		SO		340.5		110 57 36.0	150	1436					
270A	R14926	DEL ___		297.3	196.24	33 47 48.0	6.000	30.0	21.1	151.9	151.3		
Salome		AZ		116.3		113 33 28.0	100	733	Southwest Fm Broadcasting				
270A	KVGG	LIC _CX		297.3	196.23	33 47 47.6	5.000	22.4	15.0	159.5	169.4		
Salome		AZ		116.3	BLH20091016ADL	113 33 27.9	-50	578	Kemp Communications, Inc.				
269C1	KQAZ	LIC ZC_		53.7	238.22	34 15 06.0	55.000	8.6	65.2	209.0	169.0		
Springerville		AZ		234.9	BLH20001114AAB	109 35 06.0	379	2620	wsk Family Trust (Cathy Ko				
272B	AL0630	VAC ___		149.7	259.15	30 58 57.0	50.000	45.3	65.0	204.2	176.9		
Cananea		SO		330.4		110 18 01.0	150	1720					

CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	Page #	2
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	*IN*	*OUT*
										(Overlap	in km)
269A	KKYZ	LIC _CN		139.3	209.17	31 33 59.0	3.000	2.5	27.3	196.5	181.1
Sierra Vista		AZ		320.1	BLH19941005KC	110 13 57.0	100	1449	Cochise	Broadcasting, Llc	
269A	KXKR	CP _CX		140.0	197.26	31 38 06.0	6.000	1.6	15.8	185.5	181.4
Huachuca City		AZ		320.7	BNPH20070413AGV	110 19 57.0	-14	1369	Cochise	Broadcasting, Llc	
217A	KSHM	LIC _CX		41.0	198.27	34 20 26.0	2.700	0.7	20.8	9.5R	188.8M
Show Low		AZ		221.8	BLED20110926AEB	110 15 22.0	75	2025	Radio 74	Internationale	
268B	AL5316	VAC _		183.9	255.44	30 42 34.0	50.000	5.4	65.0	239.8	190.0
Altar		SO		3.8		111 51 11.0	150	582			
269C2	NEW	CP DHX		316.6	240.68	34 33 46.0	28.000	4.8	45.9	217.6	194.6
Bagdad		AZ		135.6	BNPH20150911AHS	113 28 42.0	126	940	River Rat	Radio, Llc	
273C1	6893	_		263.8	290.31	32 41 02.0	0.000	0.0	72.0	281.0	218.1
Ladrillera		BN		82.2		114 45 29.0		58			
272C1	KJJJ	LIC ZCX		313.0	335.56	35 01 58.0	17.000	97.3	63.2	221.0	248.9
Laughlin		NV		131.5	BLH20090820ABV	114 21 57.0	576	1367	Steven M. Greeley		
273C	AL4495	VAC _		200.1	323.10	30 16 00.0	100.000	13.2	92.0	299.6	230.9
Puerto Lobos		SO		19.4		112 49 35.0	600	658			
217A	KAWN	LIC _CX		21.5	241.99	35 01 36.0	0.300	0.7	20.8	9.5R	232.5M
Winslow		AZ		202.1	BLED20100504AAY	110 41 50.0	36	1489	American Family	Associatio	
274A	R17547	VAC _		132.4	273.28	31 19 33.0	3.000	2.7	24.0	260.3	249.1
Agua Prieta		SO		313.5		109 32 56.0	100	1377			
218B	XHSOAFM	OPE _HN		190.3	259.63	30 41 50.0	50.000	0.7	20.8	10.0R	249.6M
Caborca		SO		10.0		112 09 29.0	20	320			
218B	XHSOAFM	USE _		190.3	259.63	30 41 50.0	50.000	0.7	20.8	10.0R	249.6M
Caborca		SO		10.0		112 09 29.0	150	450			
218A	AL9189	VAC _		149.7	258.82	30 58 55.0	3.000	0.7	20.8	5.0R	253.8M
Cananea		SO		330.4		110 18 02.0	100	1670			
272D	KJJJ-FM2	LIC DC_		319.7	310.62	35 06 48.0	0.500	29.1	18.0	262.7	271.5
Kingman		AZ		138.4	BLFTB20100108ABT	113 53 00.0		2352	Steven M. Greeley		
272D	KJJJ-FM1	CP DV_		307.2	289.92	34 33 06.0	0.600	10.3	5.9	263.0	271.8
Lake Havasu City		AZ		125.8	BPFTB20151123AEF	114 11 37.0		1437	Steven M. Greeley		
272D	KJJJ-FM1	LIC DH_		307.2	289.92	34 33 06.0	1.000	5.7	3.3	267.6	272.7
Lake Havasu City		AZ		125.8	BLFTB20100108ABU	114 11 37.0		1442	Steven M. Greeley		
270B	XHPFFM	OPE _HN		264.6	355.33	32 38 37.0	14.200	39.7	65.0	306.4	271.0
Mexicali		BN		82.5		115 27 09.0	60	68			
273C3	KUGO	LIC _CX		352.2	329.69	35 56 43.0	14.000	3.1	30.9	304.5	294.2
Grand Canyon Villag		AZ		171.9	BLH20100902ABL	112 10 17.0	74	2039	Itm, Llc		
274B	2955	VAC _		263.9	368.42	32 35 10.0	0.000	0.0	65.0	359.1	303.0
Esperanza		BN		81.7		115 35 03.0		40			
217A	VA8943	VAC _N		93.7	318.72	32 46 12.0	6.000	0.7	20.8	9.5R	309.2M
Silver City		NM		275.6		108 16 41.0	100	1957			
217C3	KRXG	LIC _HX		91.8	321.34	32 51 48.0	0.620	0.7	20.8	11.5R	309.8M
Silver City		NM		273.7	BLED20131129AHV	108 14 28.0	432	2456	Regents Of New Mexico Stat		
217A	KHCK	LIC _HX		40.7	337.78	35 17 01.0	0.200	0.7	20.8	9.5R	328.3M
Houck		AZ		222.0	BLED20110822AEV	109 14 51.0	1	1930	Advance Ministries, Inc.		
218B	XHJCFM	OPE _HN		264.6	356.13	32 38 37.0	14.118	0.7	20.8	10.0R	346.1M
Mexicali		BN		82.5		115 27 09.0	60	67			
218B	XHJCFM	USE _		264.6	356.13	32 38 37.0	50.000	0.7	20.8	10.0R	346.1M
Mexicali		BN		82.5		115 27 09.0	150	158			
217C0	KGHR	LIC DHX		6.4	374.71	36 21 27.0	100.000	0.7	20.8	24.5R	350.2M
Tuba City		AZ		186.7	BLED20060718AAF	111 12 12.0	322	2097	Tuba City High School Boar		

Terrain database is NGDC 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= 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 restricted contour.

Reference station has protected zone issue: Mexico

\* No actual interference will be caused to either KALV-FM or KNIX-FM since the worse case 100  
DBU interference contour will not cover any population. See the Technical Statement for more  
details.

FIGURE 3 - PREDICTED 100 DBU INTEFERENCE CONTOUR  
K243BP CASA GRANDE, AZ, CH 271D

Coverage Study - NGDC 30 SEC  
08-08-2017

K243BP CH288 D , 0.25 kW, 0.0m HAAT, 777.0m COR AMSL  
Interference Contour = 100 dBu. Population = 0

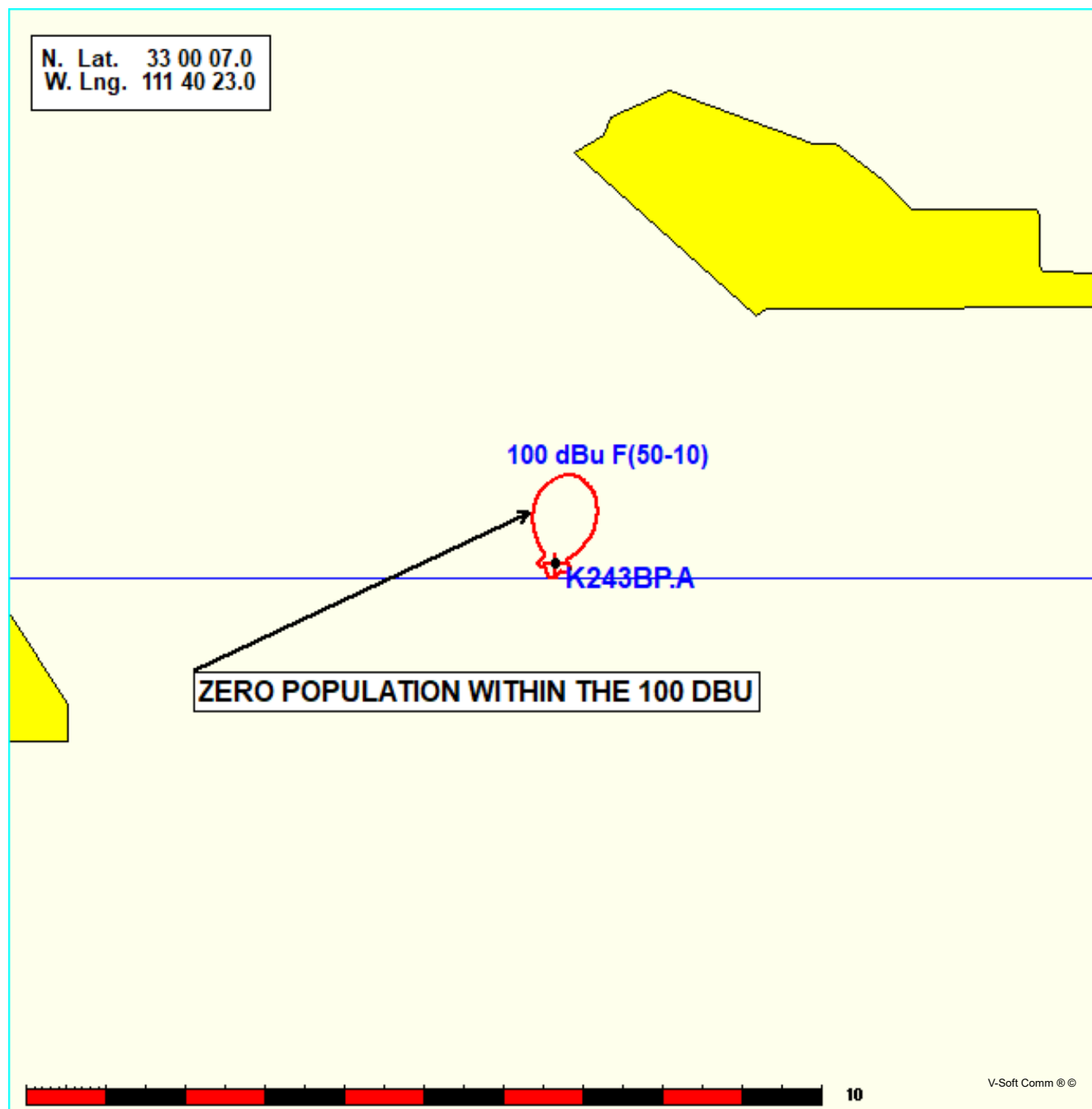




FIGURE 4 - DIRECTIONAL ANTENNA DATA

K243BP.A

08-08-2017

RMS(V) = .433

SCALA CA-5-CP ORIENTED AT

Graph is Relative Field

13 Degrees

Azi	Field	dBk	kW
000	0.937	-06.586	0.219
010	0.993	-06.082	0.247
020	0.964	-06.339	0.232
030	0.885	-07.082	0.196
040	0.749	-08.531	0.140
050	0.568	-10.934	0.081
060	0.367	-14.727	0.034
070	0.213	-19.453	0.011
080	0.137	-23.286	0.005
090	0.139	-23.160	0.005
100	0.154	-22.270	0.006
110	0.177	-21.061	0.008
120	0.187	-20.584	0.009
130	0.176	-21.110	0.008
140	0.146	-22.734	0.005
150	0.123	-24.222	0.004
160	0.132	-23.609	0.004
170	0.154	-22.270	0.006
180	0.177	-21.061	0.008
190	0.191	-20.400	0.009
200	0.184	-20.724	0.008
210	0.164	-21.724	0.007
220	0.139	-23.160	0.005
230	0.125	-24.082	0.004
240	0.133	-23.544	0.004
250	0.165	-21.671	0.007
260	0.185	-20.677	0.009
270	0.184	-20.724	0.008
280	0.162	-21.830	0.007
290	0.145	-22.793	0.005
300	0.134	-23.479	0.004
310	0.171	-21.361	0.007
320	0.296	-16.595	0.022
330	0.486	-12.288	0.059
340	0.682	-09.345	0.116
350	0.838	-07.556	0.176
*013	0.100		0.250

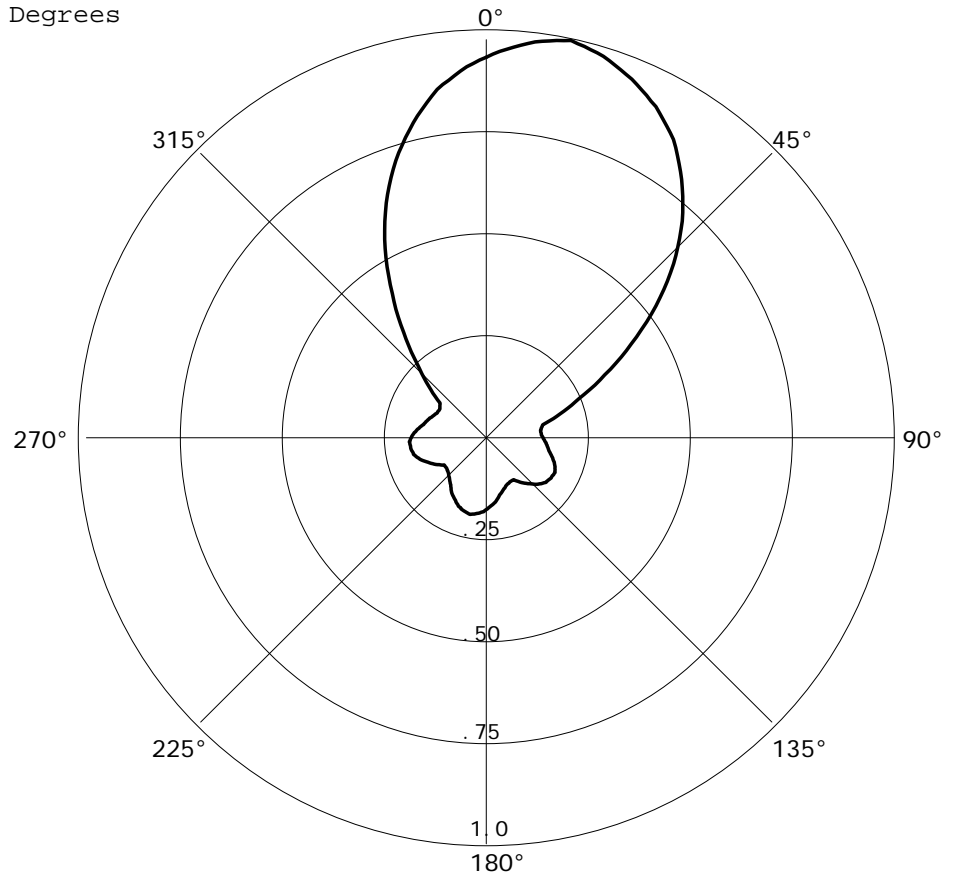


FIGURE 5 - FILL IN MAP WITH KLVA(FM)  
K243BP CASA GRANDE, AZ, CH 271D

Coverage Study - NGDC 30 SEC  
08-08-2017

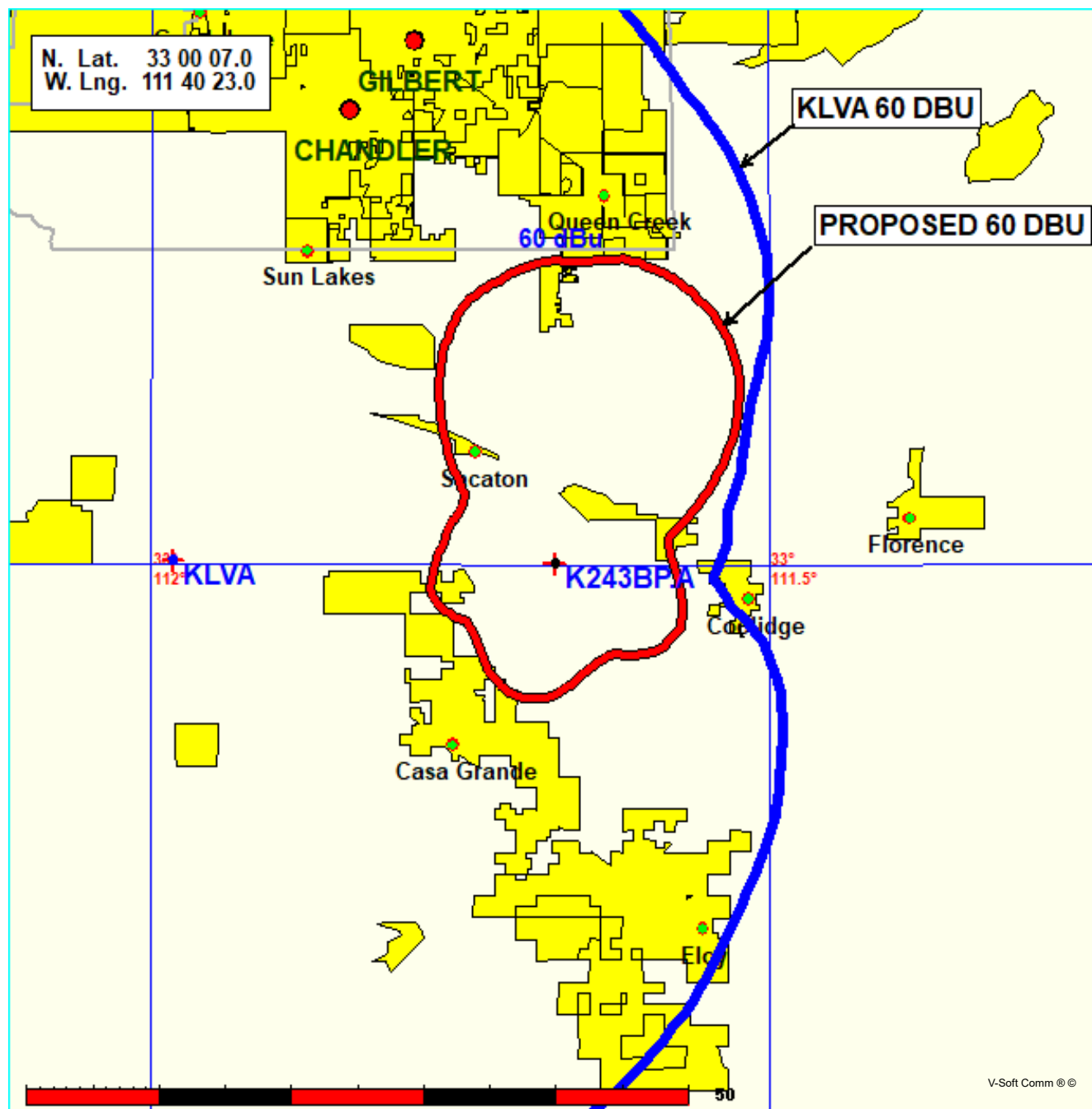


FIGURE 6 - PRESENT AND PROPOSED 60 DBU  
K243BP CASA GRANDE, AZ, CH 271D

Coverage Study - NGDC 30 SEC  
08-08-2017

