

TECHNICAL STATEMENT
K201CQ PRESCOTT, ARIZONA 254D
CEDAR COVE BROADCASTING, INC.
FCC FORM 349
JUNE 2016

This Technical Statement is in support of FCC form 349 filed by Cedar Cove Broadcasting, Inc. for a minor change in the licensed facility of K201CQ, facility ID 21071. It is proposing to remain at its existing tower site located at N. $34^{\circ}-41'-40''$, W. $112^{\circ}-07'-35''$, NAD 27, with a decreased in Effective Radiated Power to 4 Watts (0.004 KW) and utilizing a new directional Nicom model BKG-1, one bay dipole with vertical only polarization. The antenna will be mounted at the 10 meter level on a 15 meter overall tower, with a Center of Radiation at 2370 Above Mean Sea Level. K201CQ also seeks to “one step” channel change from 201D to 254D (its I.F. spaced channel).

Figure 1 shows a channel interference study conducted from the proposed site for K201CQ. It shows that the proposed operation of K201CQ on channel 254D, will not cause any prohibited outgoing interference to any licensed or proposed FM services, with the exception of 2nd adjacent channel station KKFR(FM) Mayer, Arizona operating on channel 252C, facility ID 41462 and KTMG(FM) Prescott, Arizona operating on channel 256A, facility ID 52001.

The proposed operation of K201CQ on 254D is located within the protected 60 dB μ contour of 2nd adjacent channel stations KKFR(FM) and KTMG(FM).

Figure 2 shows the coverage area for the worse case 100 dB μ interference contour F(50-10) and shows that there is no population in the area of interference. The applicant, Cedar Cove Broadcasting, Inc., 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 has private access located at a remote mountain tower site known as "Mingus Mountain". The transmitter building is uninhabited and does not have indoor plumbing. Should any unforeseen actual interference be caused, the licensee will immediately cease broadcasting with K201CQ until such interference can be eliminated.

Figure 3 is a tabulation of the proposed directional antenna system parameters to be used by K201CQ on channel 254D.

The current and proposed 60 dB μ contours of K201CQ with overlap with one another, as required since the translator will remain at the same transmitter site as it is currently licensed.

It was concluded that the new proposed operation of K201CQ Prescott, Arizona on channel 254D will not cause any harmful interference to any existing stations, and will be in full compliance with the commission's rules.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY

REFERENCE
34 41 40.0 N.
112 07 35.0 W.

CH# 254D - 98.7 MHz, Pwr= 0.004 kW DA, HAAT= 771.0 M, COR= 2370 M
K201CQ PRESCOTT, AZ, CH. 254D
Average Protected F(50-50)= 10.94 km
Standard Directional

DISPLAY DATES
DATA 06-01-16
SEARCH 06-01-16

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
254C Phoenix	KMVP-FM	LIC _C_ AZ		177.8 357.8	151.14 BMLH20040707ABN	33 19 58.0 112 03 48.0	100.000 545	195.1 911	90.2 Bonneville International C	-48.4*	47.0
254D Prescott	K254CB	CP _DC_ AZ		238.7 58.5	43.66 BPFT20151229ARC	34 29 24.0 112 31 59.0	0.250	85.6 2179	26.1 Advance Mini stries, Inc D/	-43.4*	0.6
254D Prescott	K254CB	LIC _DC_ AZ		238.8 58.6	44.07 BLFT20150923AAF	34 29 20.0 112 32 15.0	0.250	82.3 2137	24.8 Advance Mini stries, Inc D/	-39.7*	2.3
252C Mayer	KKFR	LIC _NCX_ AZ		203.4 23.2	55.63 BLH20060831AAC	34 14 03.0 112 22 01.0	41.000 852	11.2 2385	90.4 Ri vi era Broadcasting, LI c	41.9	-34.8*
256A Prescott	KTMG	LIC _CN_ AZ		247.7 67.5	34.96 BLH19930510KC	34 34 29.0 112 28 45.0	6.000 61	3.6 1759	37.8 Flagstaff Radio, Inc	28.4	-2.8*
255C2 Doney Park	KZXX	CP _CX_ AZ		38.3 218.6	77.48 BPH20140528AHK	35 14 25.0 111 35 49.0	0.560 610	64.4 2844	42.9 Cochi se Broadcasting LI c	1.1	12.1
255C3 Doney Park	KZXX	LIC _CX_ AZ		38.3 218.6	77.48 BLH20121214AAP	35 14 26.0 111 35 51.0	0.235 610	53.6 2844	34.9 Cochi se Broadcasting LI c	11.8	20.0
257C2 Payson	KEMP	CP _ZCX_ AZ		127.9 308.3	91.94 BPH20100430ACE	34 11 04.0 111 20 16.0	50.000 140	5.7 1468	53.4 Kemp Communi cations, Inc.	77.4	34.3
253L1 Flagstaff	KXGC-LP	CP _ _ AZ		38.8 219.1	72.58 BNPL20131115ACB	35 12 08.7 111 37 32.2	0.100 17	2169	49.8 San Francisco De Asi s Roma		41.8
257C3 Payson	KEMP	LIC _CX_ AZ		127.9 308.3	91.94 BLH20070813ABX	34 11 04.0 111 20 16.0	17.000 123	4.1 1457	42.4 Kemp Communi cations, Inc.	79.1	44.2
257D Flagstaff	K257FI	LIC _V_ AZ		38.3 218.6	77.48 BLFT20160418AAI	35 14 25.0 111 35 49.0	0.132 589	0.8 2837	29.9 Donal d F. Hendren	64.6	47.5
255L1 Payson	KPIH-LP	LIC _ _ AZ		123.0 303.5	89.47 BLL20151005AAR	34 15 13.0 111 18 39.0	0.004 147	1613	74.0 Rim Cathol ic Evangel izatio		70.0
253L1 Payson	KCMA-LP	LIC _ _ AZ		124.9 305.4	89.05 BLL20050803ABB	34 14 01.0 111 19 58.0	0.003 167	1531	76.7 Payson Classi cal Music Ass		70.1

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 cause to second adjacent stations KKFR(FM) and KTMG(FM) since the worse case 100 dBu interference contour will not cover any population. See the Technical Statement for more details.

FIGURE 2 - PREDICTED 100 DBU INTERFERENCE CONTOUR
K201CQ PRESCOTT, AZ, CH. 254D

Coverage Study - NGDC 30 SEC
06-01-2016

K201CQ CH254 D , 0.004 kW, 771.0m HAAT, 2370.0m COR AMSL
Interference Contour = 100 dBu. Population = 0

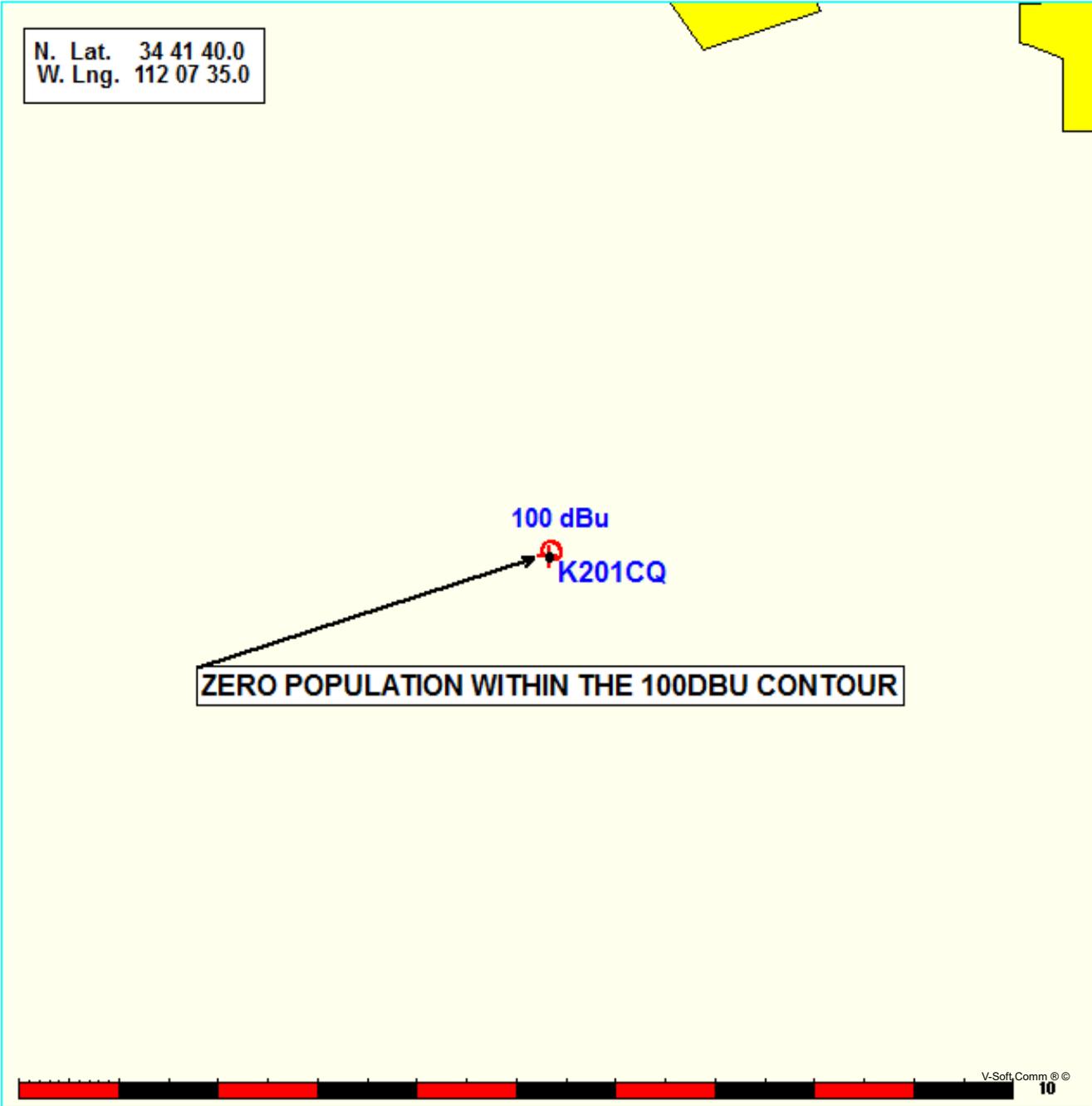


FIGURE 3 - DIRECTIONAL ANTENNA DATA

K201CQ

06-01-2016

RMS(V) = .64

Graph is Relative Field

Azi	Field	dBk	kW
000	0.927	-24.638	0.003
010	0.956	-24.370	0.004
020	0.978	-24.173	0.004
030	0.990	-24.067	0.004
040	1.000	-23.979	0.004
050	0.990	-24.067	0.004
060	0.978	-24.173	0.004
070	0.956	-24.370	0.004
080	0.927	-24.638	0.003
090	0.882	-25.070	0.003
100	0.808	-25.831	0.003
110	0.733	-26.677	0.002
120	0.646	-27.775	0.002
130	0.543	-29.283	0.001
140	0.430	-31.310	0.001
150	0.324	-33.768	0.000
160	0.240	-36.375	0.000
170	0.183	-38.730	0.000
180	0.158	-40.006	0.000
190	0.163	-39.736	0.000
200	0.157	-40.061	0.000
210	0.165	-39.630	0.000
220	0.161	-39.843	0.000
230	0.165	-39.630	0.000
240	0.157	-40.061	0.000
250	0.163	-39.736	0.000
260	0.158	-40.006	0.000
270	0.183	-38.730	0.000
280	0.240	-36.375	0.000
290	0.324	-33.768	0.000
300	0.430	-31.310	0.001
310	0.543	-29.283	0.001
320	0.646	-27.775	0.002
330	0.733	-26.677	0.002
340	0.808	-25.831	0.003
350	0.882	-25.070	0.003

NICOM BKG-1
DIPOLE

