

TECHNICAL STATEMENT
K292GF BAKER, CALIFORNIA
MOUNTAIN COMMUNITY TRANSLATORS, LLC
FCC FORM 349
JULY 2015

This Technical Statement is in support of a minor modification of Construction Permit (“CP”) application, FCC form 349, being filed on behalf of Mountain Community Translators, LLC (“MCT”) in regards to its FM translator CP, K292GF Baker, California, facility ID 148238, BNPFT-20030825ANQ.

MCT is proposing to relocate to a existing tower site known as Clark Mountain, located at N. 35°- 29’- 28”, W. 115°- 33’- 26”, NAD 27, with a increase in Effective Radiated Power to 250 Watts (0.25 kilowatts) and replace its current antenna with a Scala model CA-2-H, one bay, horizontal polarized, directional antenna. The antenna will be mounted at the 25 meter level on a 49 meter overall tower, with a Center of Radiation at 1845 Above Mean Sea Level. K292GF will be a “fill-in” translator for KHYZ Mountain Pass, CA, Ch. 259B, facility ID 34555. K292GF is also proposing to “one step” channel change from 292D to 291D.

Figure 1 shows a channel interference study conducted from the proposed site for K292GF. It shows that the proposed operation of K292GF on channel 291D, will not cause any prohibited outgoing interference to any licensed or proposed FM services.

Figure 2 shows the antenna polar plot of the proposed directional antenna.

Figure 3 is a map showing the present and proposed 60 dBμ contours for K292GF. It shows that there will be overlap between these two facilities as required.

Figure 4 – is a “fill-in” map showing the proposed 60 dB μ contour for K292GF, and the proposed “fill-in” station to be rebroadcast, KHYZ(FM) Mountain Pass, CA, FCC Facility ID 34555 operating on channel 259B.

It was concluded that the new proposed operation of K292GF Baker, California on channel 291D will not cause any harmful interference to any existing stations and/or any existing or proposed LPFM stations, and will be in full compliance with the commission’s rules.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY

K292GF BAKER, CA, CH. 291D

REFERENCE 35 29 28.0 N. CH# 291D - 106.1 MHz, Pwr= 0.25 kW DA, HAAT= 526.7 M, COR= 1845 M DISPLAY DATES
 115 33 26.0 W. Average Protected F(50-50)= 29.91 km DATA 07-18-15
 Standard Directional SEARCH 07-18-15

CH CITY	CALL	TYPE STATE	ANT ZHX	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
291C Amargosa Valley	KZNV	CP NV	ZHX	345.8 165.5	131.68 BPH20140418AAW	36 38 26.2 115 55 15.5	100.000 596	199.3 1807	92.0 Shamrock Communications, I	-79.0*	0.7
292D Baker	K292GF	CP CA	_C_	259.7 79.5	33.83 BNPFT20030825ANQ	35 26 10.0 115 55 26.0	0.010 432	16.3 1387	7.8 Mountain Community Transla	-9.3	-21.4*
293C0 Las Vegas	KSNE-FM	LIC NV	_CX	40.7 221.0	76.04 BMLH20110126ABC	36 00 30.0 115 00 20.0	100.000 352	6.2 1048	54.3 Citicasters Licenses, Inc.	51.5	17.8
291D Las Vegas	K291BX	CP NV	DH_	29.0 209.2	76.30 BNPFT20130812AAH	36 05 29.0 115 08 43.0	0.001 -22	1.6 640	0.3 Shamrock Communications, I	57.1	18.2
289C Dolan Springs	KOAS	LIC AZ	_HX	70.7 251.4	118.35 BLH20111104AKT	35 50 11.9 114 19 14.1	100.000 543	14.6 1536	94.8 Beasley Media Group, LIc	85.3	23.1
291B Palm Springs	KPLM	LIC CA	_CN	199.0 18.6	189.97 BLH19981105KC	33 52 14.0 116 13 39.0	50.000 121	115.0 840	36.1 R M Broadcasting, LIc	45.4	53.2
238C Henderson	KWNR	LIC NV	_CY	40.7 221.0	76.03 BLH19890629KB	36 00 31.0 115 00 22.0	100.000 354	13.4 1044	90.9 Citicasters Licenses, Inc.	28.5R	47.5M
289D Henderson	KOAS-FM1	LIC NV	DC_	26.3 206.5	81.53 BLFTB20100510AWA	36 08 55.0 115 09 15.0	2.500	2.0 966	28.1 Beasley Media Group, LIc	62.2	49.4
288D Pahrump	K288FS	CP NV	DV_	343.5 163.3	67.94 BPFT20150202AAP	36 04 40.0 115 46 22.0	0.250	0.0 1050	2.4 Community Education Founda	57.3	65.5
291D Joshua Tree & Twent	KPLM-FM1	LIC CA	DV_	201.6 21.3	159.43 BLFTB19990831AAL	34 09 16.0 116 11 51.0	0.200 86	57.1 967	16.9 Rm Broadcasting LIc	72.5	57.6
292D Laughlin	K292EU	LIC NV	DV_	109.7 290.2	78.04 BLFT20130215ABY	35 15 08.0 114 44 58.0	0.185 728	5.9 1536	2.8 Donald F. Hendren	58.1	59.2
237D Riviera, Etc.	K237CK	LIC AZ	DHN	110.0 290.4	78.87 BLFT19871223TD	35 14 48.0 114 44 32.0	0.155 679	13.4 1468	90.9 Donald F. Hendren	9.5R	69.4M
290C1 Amargosa Valley	KZNV	LIC NV	NHX	329.7 149.2	148.52 BLH20110214ADM	36 38 33.0 116 23 53.0	51.000 -19	59.8 835	34.2 Shamrock Communications, I	75.0	104.3
288D Pahrump	K288FS	LIC NV	_C_	335.6 155.4	87.35 BLFT20071001AIL	36 12 25.0 115 57 35.0	0.140 -64	0.8 926	9.8 Community Education Founda	75.2	76.9
291C1 Colorado City	KXFF	LIC AZ	_CX	49.3 230.7	277.62 BLH20130711AAY	37 05 41.0 113 11 06.0	35.000 347	145.4 1728	61.1 Ccr-st. George Iv, LIc	113.4	150.3

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= East Zone 2A, Co to 3rd adjacent.
 All separation margins (if shown) include rounding. Call signs with strikeout need not be protected.
 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

FIGURE 2 - DIRECTIONAL ANTENNA DATA

K292GF.C

07-18-2015

RMS(V) = .477

SCALA CA-2-H

Graph is Relative Field

Azi	Field	dBk	kW
000	0.145	-22.793	0.005
010	0.175	-21.160	0.008
020	0.218	-19.251	0.012
030	0.242	-18.344	0.015
040	0.250	-18.062	0.016
050	0.260	-17.721	0.017
060	0.250	-18.062	0.016
070	0.242	-18.344	0.015
080	0.218	-19.251	0.012
090	0.175	-21.160	0.008
100	0.145	-22.793	0.005
110	0.097	-26.285	0.002
120	0.070	-29.119	0.001
130	0.055	-31.213	0.001
140	0.050	-32.041	0.001
150	0.075	-28.519	0.001
160	0.190	-20.446	0.009
170	0.345	-15.264	0.030
180	0.510	-11.869	0.065
190	0.675	-9.435	0.114
200	0.808	-7.872	0.163
210	0.915	-6.792	0.209
220	0.978	-6.214	0.239
230	1.000	-6.021	0.250
240	0.978	-6.214	0.239
250	0.915	-6.792	0.209
260	0.808	-7.872	0.163
270	0.675	-9.435	0.114
280	0.510	-11.869	0.065
290	0.345	-15.264	0.030
300	0.190	-20.446	0.009
310	0.075	-28.519	0.001
320	0.050	-32.041	0.001
330	0.055	-31.213	0.001
340	0.070	-29.119	0.001
350	0.097	-26.285	0.002

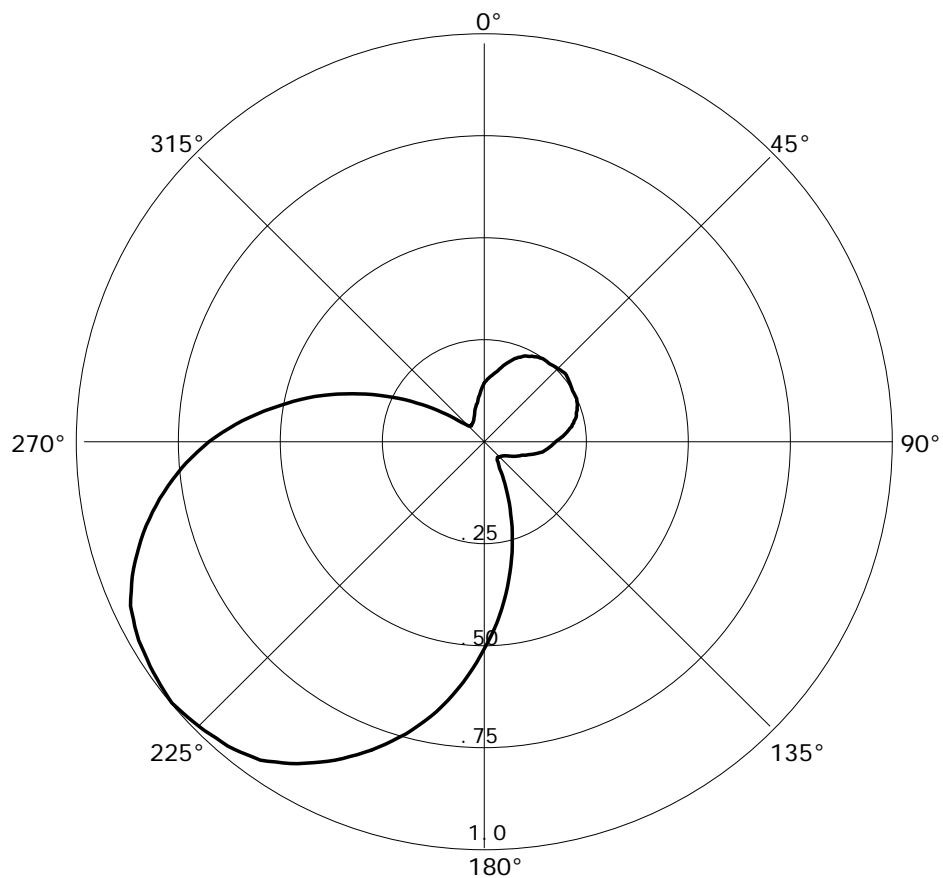


FIGURE 3 - PREDICTED 60 DBU OVERLAP
K292GF BAKER, CA, CH. 291D

Coverage Study - NGDC 30 SEC
07-18-2015

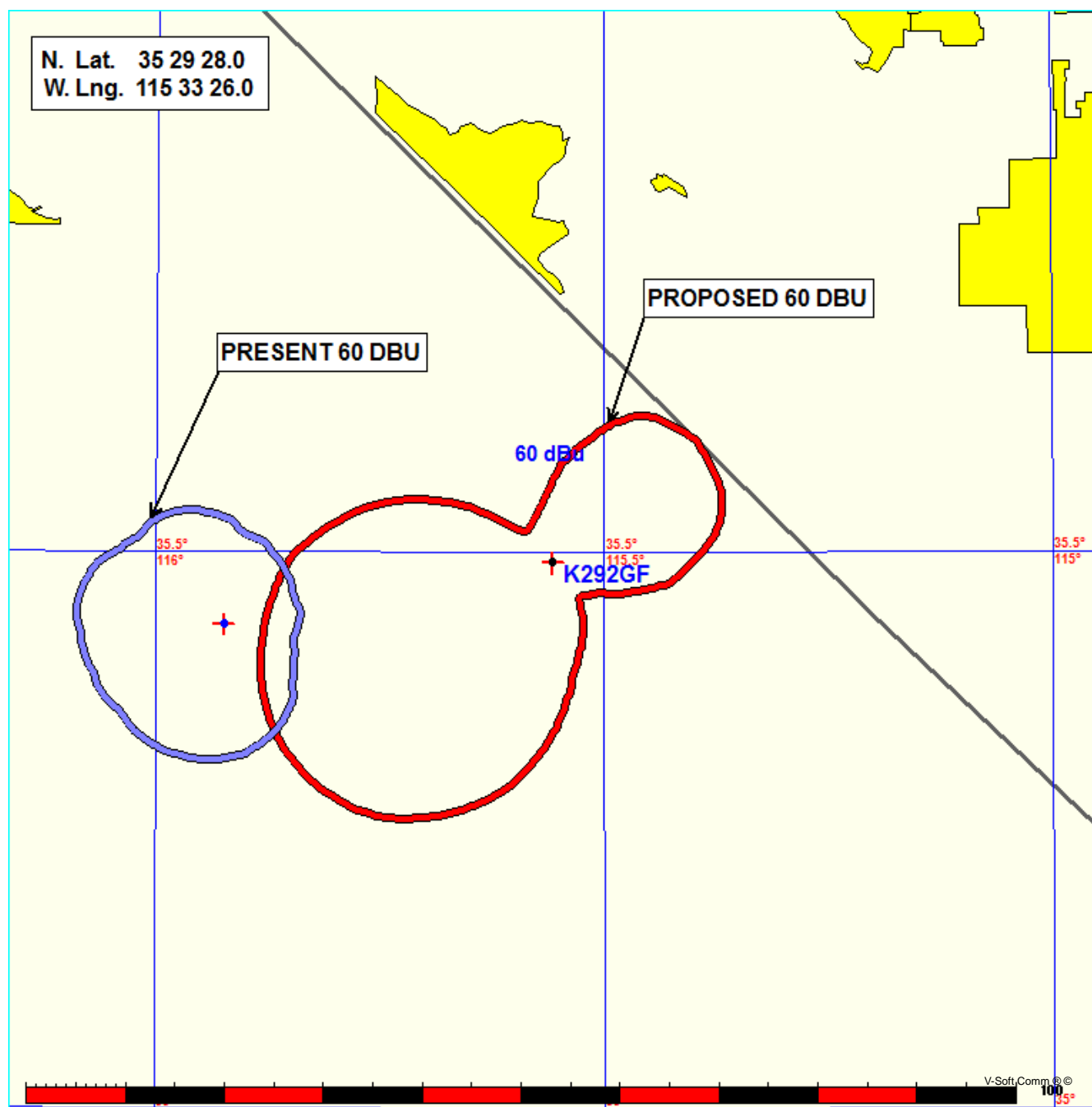


FIGURE 4 - FILL IN MAP WITH KHYZ MOUNTAIN PASS, CA
K292GF BAKER, CA, CH. 291D

Coverage Study - NGDC 30 SEC
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