

TECHNICAL STATEMENT
K230BB ALBUQUERQUE, NEW MEXICO
MOUNTAIN COMMUNITY TRANSLATORS, LLC
FCC FORM 349
JANUARY 2016

This Technical Statement is made in support of a minor change application for FM translator station K230BB at Fowler, Colorado, facility ID 140729. K230BB seeks to relocate its current authorization by less than 250 miles (247 miles) and become a fill-in translator for KDAZ(AM) Albuquerque, New Mexico, facility ID 51424. This proposal which is normally a major change move is in response to the Commissions AM Revitalization Order DA-1491 released 12/23/2015. The following will show that the new proposed operation of K230BB will meet all of the Commissions technical requirements for an FM translator station.

The proposed operation of K230BB specifies an Effective Radiated Power of 0.002 kilowatts. It will operate with a non-directional antenna with an “off the shelf” type antenna, or Nicom BKG77 with circular polarization. The antenna will be mounted on an existing tower at the KDAZ(AM) tower site, with an overall height of 93.3 meters above the ground, tower registration number 1006459. The antenna will be mounted with a Center of Radiation of 91 meters above the ground, and 1592 meters Above Mean Sea Level. The coordinates of this tower are located at N 35° 00’ 33”, W 106° 42’ 52”, NAD 27.

Figure 1 is a detailed interference study conducted on channel 245D with these new proposed facilities. It shows that the new operation of K230BB will not cause any interference to any existing or proposed FM stations on any of the pertinent same channel

or adjacent channels to channel 245, with the exception of 2nd adjacent channel station KBZU Albuquerque, New Mexico operating on channel 242C, facility ID 48596 and third adjacent channel KKSS Santa Fe, New Mexico operating on channel 247C, facility ID 63928.

The proposed operation of K230BB on 245D is located within the protected 60 dBμ contours of 3rd adjacent and 2nd adjacent channel of KBZU and KKSS. The predicted F(50-50) field strength of KBZU at the proposed K230BB transmitter site is 86.8 dBμ and KKSS is 61.5 dBμ. Therefore, the respective predicted interfering contour F(50-10) generated by the proposed K230BB on channel 245D is an additional 40 dBμ or 101.5 dBu (as referenced from KKSS).

Figure 2 shows the coverage area for the worse case 100 dBμ interference contour F(50-10) and shows that there is no population in the area of interference. This contour only extends less than 85 meters, or will not touch the ground in any location as the Center of Radiation is 91 meters above the ground. 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. Should any unforeseen actual interference be caused, the licensee will immediately cease broadcasting with K230BB until such interference can be eliminated.

The proposed operation of K230BB Albuquerque will be considered a "Fill-In" operation for Class D AM station KDAZ Albuquerque, New Mexico, facility ID 51424.

KDAZ(AM) operates with 1 kilowatts daytime with a directional antenna system on 730 kHz. Figure 3 shows that the proposed 60 dB μ contour for the proposed K230BB will not extend beyond the daytime 2.0 mV/m contour of KDAZ. It will also not extend beyond a 25 miles radius from the KDAZ tower site. Since this is a “Fill-In” translator, the maximum ERP will not exceed the maximum permissible ERP of 250 watts in any azimuth.

It was found that the new proposed operation of K230BB Albuquerque, New Mexico on channel 245D, will satisfy all of the required commission rules and regulations for an FM translator station.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY, CH. 245D

K230BB ALBUQUERQUE, AZ, CH. 245D

REFERENCE
35 00 33.0 N.
106 42 52.0 W.

CH# 245D - 96.9 MHz, Pwr= 0.002 kW, HAAT= 0.0 M, COR= 1592 M
Average Protected F(50-50)= 2.17 km
Omni-directional

DISPLAY DATES
DATA 02-01-16
SEARCH 02-01-16

CH CITY	CALL	TYPE ANT STATE	AZI ---	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
242C Albuquerque	KBZU	LIC _CY NM	46.8 226.9	33.03 BLH19870210KB	35 12 44.0 106 26 58.0	20.000 1260	9.1 3278	95.1 Radio License Holding Cbc,	20.6	-62.1*
244D Albuquerque	K230BB	APP _C_ NM	0.0 0.0	0.00 BPFT20160129AXB	35 00 33.0 106 42 52.0	0.002	3.5 1592	2.5 Mountain Community Transla	-6.0*	-6.0*
245L1 Isleta	NEW	CP ____ NM	169.9 349.9	25.86 BNPL20131113ABT	34 46 47.0 106 39 52.0	0.100 -5	1539	Puebl o Of Isleta	-4.2*	5.6
247C Santa Fe	KKSS	LIC _CY NM	11.2 191.3	87.27 BLH19850926KA	35 46 50.0 106 31 35.0	100.000 572	13.3 3057	90.7 Uni vi sion Radio License Co	70.4	-3.5*
244D Tijeras	K292FW	APP DV_ NM	81.5 261.7	33.48 BPFT20160129AAZ	35 03 10.6 106 21 05.1	0.015	17.2 2330	10.7 Tel ebeeper Of New Mexico	14.1	18.2
244C3 Grants	KMYN	LIC _CX NM	288.9 108.4	84.79 BLH20121203BTF	35 15 11.0 107 35 46.0	0.265 818	56.0 3349	36.8 Royal Di versi fied Industri	26.6	44.2
245C0 Farmington	KDAG	LIC _CX NM	332.5 151.8	226.76 BLH20060309AED	36 48 52.0 107 53 32.0	100.000 303	177.9 2129	76.0 Capstar Tx, Lic	46.3	144.1
245L1 Madrid	KMRD-LP	LIC ____ NM	49.3 229.6	66.99 BLL20141024ACI	35 24 01.6 106 09 14.6	0.035 50	1940	50.0 Madrid Cul tural Projects	50.8	
244C Cloudcroft	KNMB	LIC _CX NM	154.1 334.6	197.70 BLH20021002ABF	33 24 14.0 105 46 56.0	25.000 878	125.1 3304	85.6 Mtd, Inc.	68.8	107.0
244L1 Española	KSHF-LP	LIC ____ NM	28.7 209.1	124.59 BLL20150129AGD	35 59 28.0 106 02 53.0	0.100	1766	109.9 Holy Cross, A New Mexi co N	110.8	
244C1 Capitan	KNMB	LIC _CX NM	154.1 334.6	197.71 BLH20160120ABM	33 24 14.0 105 46 55.0	1.000 917	77.8 3312	52.3 Mtd, Inc.	116.1	140.2
244C3 Las Vegas	KMDZ	LIC _CX NM	64.5 245.4	150.26 BLH20150918ABL	35 34 48.0 105 12 59.0	6.500 -68	24.0 1969	16.1 Sangre De Cristo Broadcast	123.4	131.2
246C1 Roswell	KBCQ-FM	LIC _CN NM	129.1 310.4	279.51 BLH19851224KD	33 24 05.0 104 22 45.0	100.000 110	84.4 1203	55.0 Majestic Broadcasting, Lic	191.9	221.4
248C1 Shiprock	KNDN-FM	LIC _CX NM	307.6 126.2	268.97 BLH20160121AAK	36 27 39.8 109 05 43.5	1.500 729	2.6 2994	53.6 Krj g, Inc.	264.2	214.1
246C3 La Jara	KZBR	LIC _CX CO	11.5 191.8	267.28 BLH20080416AAD	37 22 05.0 106 06 44.0	25.000 55	38.2 2458	23.9 Wolf Creek Broadcasting, L	225.6	230.6
245B Las Palomas	AL8930	AL ____ CH	193.0 12.5	375.28	31 43 00.0 107 36 20.0	50.000 150	141.5 1404	65.0	230.3	297.7
243C Show Low	KRFM	LIC _CX AZ	254.1 72.2	309.04 BMLH20120917ACR	34 12 20.0 109 56 26.0	100.000 303	9.0 2378	67.1 Petracom Of Holbrook, Lic	297.9	240.2
243C2 Raton	KBKZ	LIC _CX NM	41.8 223.1	298.76 BLH20040927AEI	36 59 33.0 104 28 24.0	5.400 295	4.2 2609	49.0 Phil lips Broadcasting Comp	291.1	249.1
243C3 Del Norte	KSLV-FM	LIC NC_ CO	2.1 182.2	302.09 BLH20081024AAU	37 43 47.0 106 35 18.0	0.930 485	2.0 3343	39.9 San Luis Valley Broadcasti	296.7	259.7
242C El Paso	KHEY-FM	LIC _CY TX	176.5 356.6	356.97 BLH7752	31 47 47.0 106 28 55.0	100.000 424	3.2 1649	31.0 Cc Li censes, LI c	349.9	285.9
248C El Paso	KBNA-FM	LIC _EN TX	176.4 356.6	357.39 BLH19890426KA	31 47 34.0 106 28 47.0	100.000 332	3.2 1547	31.0 Ti chenor Li cense Corporati	350.4	292.5
243C2 Bovina	KKNM	LIC ZC_ TX	94.9 277.0	346.30 BLH20080417AAS	34 41 17.0 102 56 53.0	50.000 140	4.7 1432	43.7 Tejas Broadcasting, LI p	339.4	301.2
247A Lake City	NEW	CP _CX CO	350.9 170.5	335.79 BNPH20151013AIR	37 59 43.4 107 19 16.9	1.022 242	2.0 3605	29.4 Munera, Campo E	330.6	303.6
248C1 Clayton	KLMX-FM	LIC _H_ NM	62.3 244.4	356.41 BLH20131223ACG	36 26 39.0 103 11 24.0	52.000 110	4.2 1629	39.9 Ji mmy N. Mccol lum	349.2	315.5
246L1 El Paso	NEW	CP ____ TX	175.9 356.0	357.10 BNPL20131114BVR	31 47 50.6 106 26 35.0	0.050 -33	1186	346.5 Sin Fronteras Organi zi ng P	346.9	

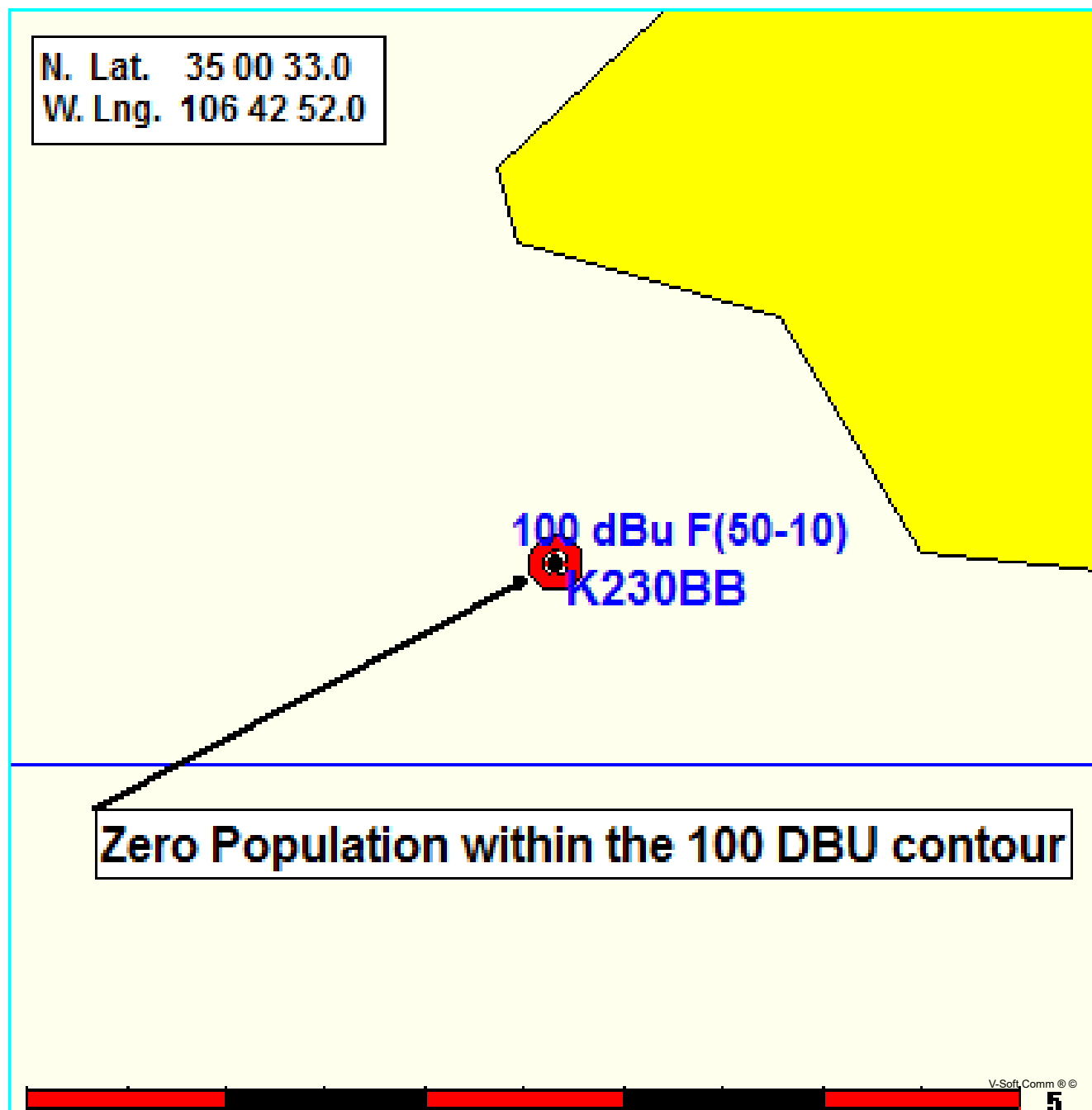
Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding. Call signs with strikeout 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: AM tower

* Not actual interference will be caused to KBZU or KKSS since the 100 dbu interference contour will not cover any population. See the technical statement for more details.

FIGURE 2 - PREDICTED 100 DBU CONTOUR
K230BB ALBUQUERQUE, NM, CH 245D

Coverage Study - NGDC 30 SEC
01-29-2016

K230BB CH245 D , 0.002 kW, -1.1m HAAT, 1592.0m COR
AMSL Interference Contour = 100 dBu. Population = 0



K230BB

BLFT20120130AAV

Latitude: 35-00-33 N

Longitude: 106-42-52 W

ERP: 0.002 kW

Channel: 245

Frequency: 96.9 MHz

AMSL Height: 1592.0 m

Elevation: 1503.0 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None

**FIGURE 3 FILL-IN MAP
K230BB WITH KDAZ**