

TECHNICAL STATEMENT
K268DV COLORADO SPRINGS, COLORADO
MINOR CHANGE APPLICATION
MOUNTAIN COMMUNITY TRANSLATORS, LLC
OCTOBER 2021

This Technical Statement is in support of a minor change application for K268DV Colorado Springs, CO, Facility ID 158405. K268DV seeks to remain at its current transmitter site with its current antenna heights. K268DV does seeks to make changes to its directional antenna system and increase its Effective Radio Power (“ERP”) to 0.2 kilowatts (200 watts). The Center of Radiation will be 2178 meters above Mean Sea Level. Figure 1 is a detailed channel interference study showing that the proposed operation of K268DV will not cause any outgoing interference to any same or pertinent adjacent channel FM facilities of channel 268.

Figure 2 is the proposed directional antenna data.

Figure 3 documents “fill-in” compliance for the proposed operation of K268DV. It seeks to remain a “fill-in” translator for KJME(AM) Fountain, Colorado, facility ID 135886. KJME currently is operating under a Special Engineering Temporary Authority, BSTA-20210701AAB. It specifies a “140 foot long drop wire antenna system” which is 45.5 degrees in electrical length with 1 KW daytime. KJME also has an outstanding CP for the same STA site with 3 KW Daytime, BMP-20190102AAF. The daytime 2 mv/m contours for the STA operation and the licensed operation of KJME are plotted on the map. Also, a 25 mile (40 km) circle from the current STA and CP tower site is plotted as well. All show continued compliance for the proposed K268DV operation as all are well beyond the proposed predicted 60 dB μ of K268DV on channel 268D. It was determined that the new proposed operation of K268DV Colorado Springs, CO will meet or exceed the rules of the Commission.

FIGURE 1 - Detailed Channel Interference Study

K268DV Colorado Springs, Colorado, CH 268D

CH# 268D - 101.5 MHz, Pwr= 0.2 kW DA, HAAT= -149.7 M, COR= 2178 M

Average Protected F(50-50)= 6.71 km

Standard Directional

DISPLAY DATES

DATA 10-17-21

SEARCH 10-17-21

REFERENCE
38 48 36.90 N.
104 52 55.80 W.

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*
268C Watkins	KJHM	LIC NHN CO		32.0 212.6	146.30 BLH20170103ABQ	39 55 21.90 103 58 19.80	97.000 625	197.5 2109	91.7 Max Radio Of Denver LLC	-67.5*	1.4
268D Colorado Springs	K268DV	LIC DCN CO		0.0 0.0	0.00 0000144656	38 48 36.90 104 52 55.80	0.023	2178	---Reference---		Mountain Community Transla
267D Woodland Park	K267BR	LIC _CN CO		321.5 141.3	26.08 BLFT20161031AAQ	38 59 36.90 105 04 12.90	0.090	26.3 2699	17.7 Educational Communications	-6.0*	0.2
269A Rock Creek Park	KXCL	LIC _CN CO		125.8 305.9	17.19 BMLED20130813AAE	38 43 11.00 104 43 17.90	2.100 -9	17.6 1803	12.1 Calvary Chapel Aurora	-3.1*	0.3
268D Commerce City	KJHM-FM1	LIC DCN CO		0.5 180.5	96.03 BLFTB20050802ABY	39 40 31.00 104 52 23.90	20.000 84	84.5 1766	19.0 Max Radio Of Denver LLC	-0.9	35.2
268D Commerce City	KJHM-FM1	LIC DCN CO		0.4 180.5	96.04 0000141249	39 40 31.20 104 52 24.10	20.000	84.5 1766	19.0 Max Radio Of Denver LLC	-0.9	35.2
268D Commerce City	KJHM-FM1	CP DCN CO		0.4 180.5	96.04 BPFTB20180330AAY	39 40 31.20 104 52 24.10	20.000	84.5 1766	19.0 Max Radio Of Denver LLC	-0.9	35.2
271D Manitou Springs	K271CK	LIC _CN CO		326.5 146.5	6.88 BLFT20160503ACG	38 51 42.90 104 55 33.90	0.099	0.7 2057	5.6 Public Broadcasting Of Col	0.6	0.6
266D Colorado Springs	K266CK	LIC DCN CO		355.1 175.1	8.44 BLFT20171102AAH	38 53 09.90 104 53 25.90	0.099	0.2 2213	3.9 Bison Media, Inc.	1.8	3.8
267C1 Walsenburg	KFEZ	LIC _CN CO		163.0 343.2	118.51 BLH20090105AGJ	37 47 20.00 104 29 13.90	95.500 305	113.3 2095	76.8	2.9	38.5
271D Manitou Springs	K271CK	APP _CN CO		122.8 302.9	10.03 0000162910	38 45 41.00 104 47 06.00	0.075	0.6 1887	5.2 Public Broadcasting Of Col	6.7	4.8
270C3 Centennial	KXWA	LIC NCN CO		347.4 167.3	65.43 BLH20071207AAY	39 23 06.90 105 02 53.90	9.500 163	3.1 2226	31.4 Way Media, Inc.	56.9	33.3
266C0 Denver	KOSI	LIC DCN CO		343.3 163.1	100.11 BLH20180420AAZ	39 40 24.30 105 13 04.50	100.000 341	7.9 2364	65.0 Bonneville International C	86.8	34.4
270D Pueblo	K270CM	APP _CN CO		150.0 330.2	56.05 0000161372	38 22 22.00 104 33 39.00	0.250	1.1 1680	13.9 Colorado Radio Marketing,	52.1	42.1
270D Pueblo	K270CM	LIC _CN CO		161.5 341.6	62.34 BLFT20160921ACH	38 16 40.00 104 39 16.90	0.250	1.1 1518	7.1 Colorado Radio Marketing,	58.4	55.2
215C3 Rye	KRWA	LIC _CN CO		186.1 6.0	96.65 BLED20110307ABR	37 56 40.00 104 59 58.00	10.000 35	135.6 2577	57.0 Way Media, Inc.	11.5R	85.2M
269D Evergreen	K269CL	LIC DHN CO		338.9 158.6	96.90 BLFT19950811TB	39 37 23.90 105 17 25.90	0.035 354	2.3 2646	1.4 Ihm Licenses, LLC	89.2	87.8
269C1 Eagle	KSKE-FM	LIC ZCN CO		302.6 121.4	194.94 BLH20050915ADE	39 44 17.90 106 48 00.10	12.000 667	96.2 3171	65.3 Alwaysmountaintime, LLC	92.3	120.5
271A Breckenridge	KSMT	LIC ZCN CO		308.0 127.2	124.99 BLH20070504ABR	39 29 43.90 106 01 46.00	6.000 -64	1.6 3250	15.8 Alwaysmountaintime, LLC	117.2	108.4
214A Breckenridge	KMPB	LIC _CN CO		308.0 127.2	124.99 BLED20130930BUD	39 29 43.90 106 01 46.00	0.600 -76	12.5 3246	8.9 Community Radio For Northe	9.5R	115.5M
215A Leadville	KTOL	LIC _CN CO		291.5 110.6	131.54 BLED20080606AAR	39 14 05.00 106 18 01.10	0.450 -207	27.7 3083	8.3 Educational Communications	9.5R	122.0M

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. 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.

« = Station meets FCC minimum distance spacing for its class.

FIGURE 2 - DIRECTIONAL ANTENNA PATTERN

K268DV

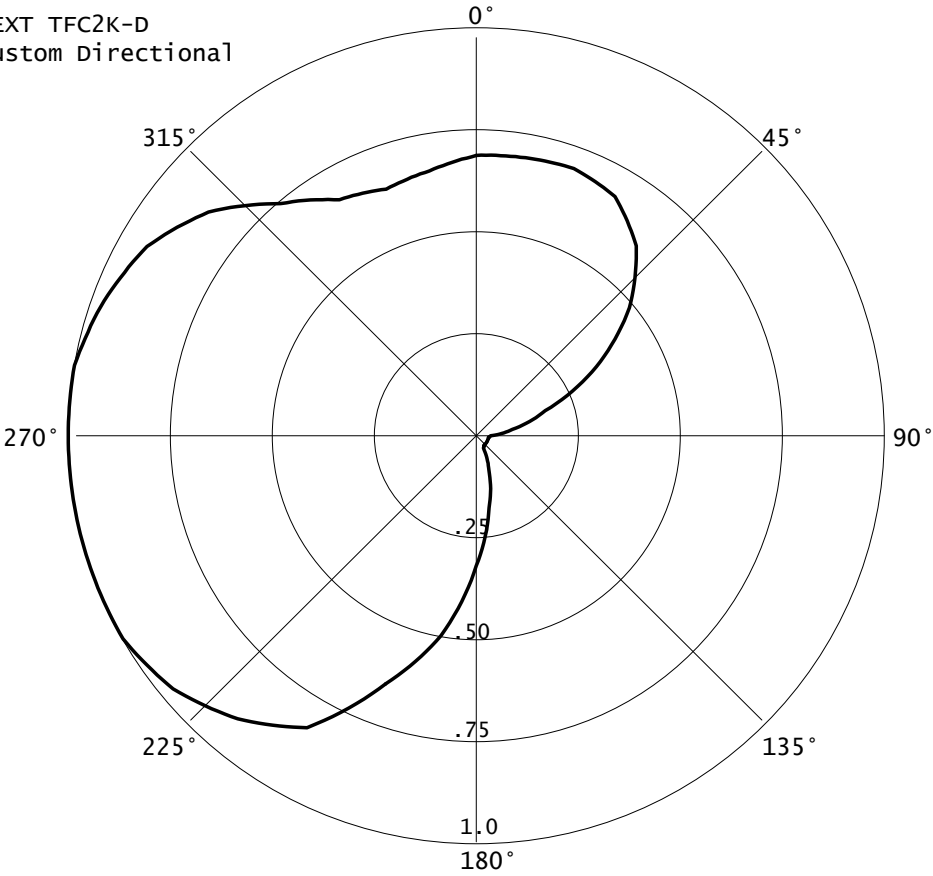
10-17-2021

RMS(V)= .653

Graph is Relative Field

Azi	Field	dBk	kw
000	0.690	-10.213	0.095
010	0.695	-10.150	0.097
020	0.700	-10.088	0.098
030	0.680	-10.340	0.092
040	0.610	-11.283	0.074
050	0.490	-13.186	0.048
060	0.340	-16.360	0.023
070	0.180	-21.884	0.006
080	0.090	-27.905	0.002
090	0.035	-36.108	0.000
100	0.030	-37.447	0.000
110	0.030	-37.447	0.000
120	0.030	-37.447	0.000
130	0.030	-37.447	0.000
140	0.030	-37.447	0.000
150	0.035	-36.108	0.000
160	0.090	-27.905	0.002
170	0.180	-21.884	0.006
180	0.320	-16.887	0.020
190	0.500	-13.010	0.050
200	0.650	-10.731	0.084
210	0.830	-8.608	0.138
220	0.910	-7.809	0.166
230	0.970	-7.254	0.188
240	1.000	-6.990	0.200
250	1.000	-6.990	0.200
260	1.000	-6.990	0.200
270	1.000	-6.990	0.200
280	1.000	-6.990	0.200
290	0.971	-7.245	0.189
300	0.932	-7.601	0.174
310	0.857	-8.330	0.147
320	0.746	-9.535	0.111
330	0.671	-10.455	0.090
340	0.646	-10.785	0.083
350	0.662	-10.573	0.088

BEXT TFC2K-D
Custom Directional



K268DV

0000144656
Latitude: 38-48-36.90 N
Longitude: 104-52-55.80 W
ERP: 0.20 kW
Channel: 268
Frequency: 101.5 MHz
AMSL Height: 2178.0 m
Elevation: 2170.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KJME STA

Latitude: 38-49-08 N
Longitude: 104-46-34 W
ERP: 1 KW DAY
Frequency: 890 KHZ

KJME Lic.

Latitude: 38-31-07 N
Longitude: 104-36-03 W
ERP: 5 KW DAY
Frequency: 890 KHZ

FIGURE 3 - FILL-IN MAP WITH KJME(AM)