

TECHNICAL STATEMENT  
K258BB GRANITE, WYOMING  
LARAMIE MOUNTAIN BROADCASTING, LLC  
FCC FORM 349  
FEBRUARY 2015

This Technical Statement is filed in support of a minor change application for K258BB Granite, Wyoming, facility ID 155323. K258BB is seeking to change its transmitter location, one step I.F. channel change from channel 258D to channel 205D, lower its Effective Radiated Power to 20 watts (0.020 KW), reclassify its operation as a “fill-in” to “non-fill-in”, specify a new community of license, Granite, Wyoming, and also specify a new directional antenna.

Figure 1 is a detailed interference study for the proposed operation of K258BB on channel 205D. There will not be any prohibited outgoing interference to any same channel or pertinent adjacent channel stations.

Figure 2 shows the directional antenna data for the proposed K258BB.

Figure 3 shows that the proposed 60 dbμ predicted contour will overlap with the current 60 dbμ contour of the licensed K258BB.

The new proposed operation of K258BB Granite, Wyoming was found to meet all of the Commissions rules and regulations for an FM translator station.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY

K258BB GRANITE, WYOMING, CH 205D

REFERENCE  
41 04 40.0 N.  
105 11 59.0 W.

CH# 205D - 88.9 MHz, Pwr= 0.02 kW DA, HAAT= 170.9 M, COR= 2391 M  
Average Protected F(50-50)= 9.1 km  
Standard Directional

DISPLAY DATES  
DATA 02-10-15  
SEARCH 02-11-15

CH CITY	CALL	TYPE STATE	ANT AZI <--	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
205A Laramie	KAIW	LIC_CX WY	293.0 112.5	62.91 BLED20090220AAZ	41 17 46.0 105 53 30.0	1.150 197	83.3 2459	29.7 Educational Media Foundati	-23.9*	22.0
205A Fort Collins	KRFC	LIC_EX CO	155.8 335.9	60.45 BLED20030324ADY	40 34 53.0 104 54 20.0	3.000 66	53.3 1596	13.2 Public Radio For The Front	-2.7	13.4
204A South Greeley	KDNR	CP_DCX WY	80.1 260.3	14.91 BPED20120418AAT	41 06 02.0 105 01 29.1	1.000 129	12.7 2153	7.9 Western Inspirational Broa	-1.0	0.7
204A South Greeley	KDNR	LIC_CX WY	80.1 260.3	14.91 BMLD20080929AUD	41 06 02.0 105 01 29.1	0.500 129	12.0 2153	8.5 Western Inspirational Broa	-0.8	0.4
205A Burns	KIHI	LIC_CX WY	80.8 261.3	63.99 BLED20110106AAB	41 10 01.0 104 26 49.0	2.700 27	51.2 1739	12.9 Cedar Cove Broadcasting, I	8.9	37.0
207A Laramie	KTDX	LIC_CX WY	320.8 140.6	33.50 BLED20081010BIM	41 18 39.0 105 27 12.0	0.450 347	1.5 2751	23.3 Educational Communications	27.5	9.9
203A Laramie	KUWY	LIC_CX WY	320.5 140.3	33.50 BLED20080303AJB	41 18 36.0 105 27 17.0	0.135 298	0.8 2703	15.3 Uni versity Of Wyoming	28.2	17.4
204A Red Feather Lakes	KMKZ	LIC_CX CO	238.0 57.7	43.96 BLED20110316AAC	40 52 04.0 105 38 33.0	0.005 260	15.6 2927	10.2 3g Learning Solutions	21.2	24.3
202A Fort Collins	KRKY-FM	LIC_CX CO	191.8 11.7	52.31 BLED20140731AQY	40 36 60.0 105 19 36.0	0.140 374	0.8 2545	24.1 Cedar Cove Broadcasting, I	42.0	26.3
206D Fort Collins, Etc.	K206DB	LIC_DC_ CO	178.6 358.6	64.91 BLFT20040614AAN	40 29 36.0 105 10 53.0	0.010 334	10.2 2081	6.1 Boulder Communi ty Broadcas	44.8	40.9
204A Estes Park	KHIH	LIC_VX CO	198.7 18.5	83.88 BLED20111104ACT	40 21 44.0 105 31 04.0	0.100 -49	24.1 2664	14.8 Cedar Cove Broadcasting, I	50.7	54.2
203A Burns	KIHI	APP_CX WY	80.8 261.3	63.99 BPED20150120AAA	41 10 01.0 104 26 49.0	0.180 39	0.9 1751	6.5 Cedar Cove Broadcasting, I	59.2	57.4
202D Cedar Cove	KRKY-FM1	CP_DV_ CO	183.6 3.6	73.34 BNPFTB20140731AQV	40 25 07.0 105 15 16.0	0.006 1860	0.2 1860	2.7 Cedar Cove Broadcasting, I	63.3	67.8
06NT Denver	KXDP-LP	LI_D_N CO	183.5 3.4	129.54 BLTVL20100716ABT	39 54 48.0 105 17 33.0	3.000 879	7.0 2536	51.5 Syncom Media Group, Inc.	58.5R	71.1M
06 T Denver	KXDP-LP	CP_D_N CO	183.5 3.4	129.54 BDFCDVL20141003ACE	39 54 48.0 105 17 33.0	3.000 879	7.0 2536	51.5 Syncom Media Group, Inc.	58.5R	71.1M
207C1 Denver	KUV0	LIC_CN CO	181.6 1.6	149.68 BLED19851022KD	39 43 49.0 105 14 59.0	22.500 278	7.4 2333	65.6 Rocky Mountain Public Broa	132.3	80.3
203A Boul der	KGNU-FM	LIC_DC_ CO	178.2 358.2	120.57 BLED20100528ADY	39 59 33.0 105 09 16.0	4.000 65	2.3 1732	26.4 Boulder Communi ty Broadcas	108.3	90.3
06 D Crawford	K06KR-D	LI_D_N NE	39.4 220.6	231.40 BLDTV20081125ANV	42 40 13.0 103 24 09.0	0.028 100	7.0 1179	51.5 Nebraska Educational Tel ec	139.5R	91.9M
205C1 Carbondale	KCJX	LIC_DEX CO	225.7 44.3	260.78 BLED20040907AAD	39 25 08.0 107 22 10.0	4.000 775	154.4 3227	70.1 Roaring Fork Public Radio,	98.8	165.7
206C3 Scottsbluff	KDAI	LIC_CX NE	53.0 233.9	142.20 BLED20080523AER	41 50 21.0 103 49 53.0	1.400 238	39.2 1532	26.1 Educational Media Foundati	99.0	108.5
204C2 Crook	KVEE	LIC_CX CO	106.1 287.5	190.92 BLED20121107ABN	40 34 57.0 103 01 56.0	22.000 197	79.5 1507	54.0 Prairie Communi ty Radio	105.4	130.5
206C3 Brush	KBWA	CP_VX CO	126.5 307.5	159.07 BPED20130820AAZ	40 13 02.1 103 41 46.2	20.000 44	44.7 1369	27.8 Way Media, Inc.	106.8	121.6
06NT Manitou Springs	K06BI	LI_DHN CO	174.1 354.3	247.10 BLTTV1446	38 51 50.0 104 54 15.0	0.001 188	7.0 2012	51.5 Ci ty Of Manitou Springs	139.5R	107.6M
06 D Aspen	K06HU-D	LI_D_N CO	214.6 33.5	248.41 BLDTV20130103AEF	39 13 33.0 106 50 08.0	0.006 594	0.3 2855	24.5 Pitkin County Translator D	139.5R	108.9M
202C3 Winter Park	KFFR	CP_DCX CO	203.0 22.7	129.18 BNPED20071018BDM	40 00 23.0 105 47 38.0	10.000 -180	1.6 2745	16.7 Fraser Valley Communi ty Me	118.8	111.0

CH CITY	CALL	TYPE STATE	ANT	AZI ---	DI ST FILE #	LAT LNG	PWR(kW) HAAT (M)	INT(km) COR (M)	PRO(km) LICENSEE	Page # 2 *IN* (Overlap	*OUT* in km)
207C2	KL BV	LIC _VX		242.4	148.37	40 27 04.0	2.600	2.8	33.7	138.5	113.4
Steamboat	Springs	CO		61.4	BL ED20091125AGM	106 45 06.0	528	3146	Educational	Media	Foundati
202C1	1277517	APP _DCX		140.6	165.18	39 55 21.9	11.000	3.9	47.1	152.3	114.2
Fort	Morgan	CO		321.4	BN PED20071019BCM	103 58 18.4	334	1815	The Helpline		
06 D	K06GW-D	LI _D_N		230.4	259.82	39 33 56.0	0.005	0.3	24.5	139.5R	120.3M
New	Castle	CO		48.9	BL DTV20101013AAO	107 31 57.0	251	1940	Rocky Mountain	Public Broa	
202A	KL JV	LIC _CX		53.0	142.20	41 50 21.0	0.390	1.4	19.4	136.8	121.9
Scottsbluff		NE		233.9	BM LED20080523AEY	103 49 53.0	238	1532	Educational	Media	Foundati
208A	KV AM	APP _HX		80.4	130.12	41 15 42.0	0.140	0.8	6.1	125.4	123.9
Kimball		NE		261.4	BP ED20150120AAG	103 40 06.0	1	1470	Cedar Cove Broadcasting, I		
06 D	K06JC-D	LI _D_N		42.5	265.01	42 48 46.8	0.066	7.0	51.5	139.5R	125.5M
Chadron		NE		224.0	BL DTV20081121AKA	103 00 22.0	155	1153	Nebraska Educational	Telec	
202A	KV AM	LIC _CX		84.2	140.85	41 11 36.0	0.510	1.6	11.1	135.1	129.0
Kimball		NE		265.3	BL ED20110407ACO	103 31 45.0	86	1527	Cedar Cove Broadcasting, I		
206A	KB WA	LIC _VX		126.5	159.07	40 13 02.1	1.500	21.9	14.7	129.6	135.1
Brush		CO		307.5	BL ED20120712ABX	103 41 46.2	44	1369	Way Media, Inc.		
06NT	DK06HF	LI _DHN		198.5	272.83	38 44 37.0	0.021	7.0	51.5	139.5R	133.3M
Salida, Etc.		CO		17.8	BL TTV19780731JJ	106 11 50.0	868	3298	Chaffee County Tv	Translat	
06 T	K06KJ	CP _D_N		229.9	311.43	39 14 35.0	0.004	0.3	24.5	139.5R	171.9M
Collbran		CO		48.1	BD FCDTV20120425ADP	107 57 53.0	19	1860	Mesa County		
06 D	K06NG-D	LI _N		199.5	315.82	38 23 29.6	0.050	0.3	24.5	139.5R	176.3M
Sargents		CO		18.7	BL DTV20120613ABL	106 24 41.6	240	2794	Gunnison County	Metropolit	
06 D	K06HN-D	LI _N		207.7	318.49	38 31 41.5	0.060	7.0	51.5	139.5R	179.0M
Gunnison		CO		26.6	BL DVL20091021ABQ	106 54 14.6	278	2636	Gunnison County	Metropolit	
06 2C	KWNB-TV	AP _HN		96.8	355.25	40 37 32.0	6.300	7.0	51.5	139.5R	215.8M
Hayes Center		NE		279.5	BD STA20110930BHG	101 01 45.0	221	1160	Pappas Telecasting Of Cent		
06 2C	KWNB-TV	LI _HN		96.8	355.25	40 37 32.0	11.900	7.0	51.5	139.5R	215.8M
Hayes Center		NE		279.5	BL CDT20090604ABL	101 01 45.0	221	1160	Pappas Telecasting Of Cent		
06 2	KWNB-DR	APR _HN		96.8	355.25	40 37 32.0	3.000	7.0	51.5	139.5R	215.8M
Hayes Center		NE		279.5	BPRM20080801BDB	101 01 45.0	221	1160	Pappas Telecasting Of Cent		
06 2C	KWNB-TV	AP _HN		96.8	355.25	40 37 32.0	6.300	7.0	51.5	139.5R	215.8M
Hayes Center		NE		279.5	BD STA20121024ABA	101 01 45.0	221	1160	Pappas Telecasting Of Cent		
06 T	DK06AM	AP _N		210.3	355.30	38 17 52.0	0.060	0.3	24.5	139.5R	215.8M
Gateview		CO		28.9	BD FCDTV20100210ABG	107 15 05.0	283	2784	Gunnison County	Metropolit	

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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.

FIGURE 2 - DIRECTIONAL ANTENNA DATA

K258BB

02-11-2015

RMS(V) = .64

Graph is Relative Field

Azi	Field	dBk	kW
000	0.240	-29.385	0.001
010	0.183	-31.741	0.001
020	0.158	-33.017	0.000
030	0.163	-32.746	0.001
040	0.157	-33.072	0.000
050	0.165	-32.640	0.001
060	0.161	-32.853	0.001
070	0.165	-32.640	0.001
080	0.157	-33.072	0.000
090	0.163	-32.746	0.001
100	0.158	-33.017	0.000
110	0.183	-31.741	0.001
120	0.240	-29.385	0.001
130	0.324	-26.779	0.002
140	0.430	-24.320	0.004
150	0.543	-22.294	0.006
160	0.646	-20.785	0.008
170	0.733	-19.688	0.011
180	0.808	-18.841	0.013
190	0.882	-18.080	0.016
200	0.927	-17.648	0.017
210	0.956	-17.381	0.018
220	0.978	-17.183	0.019
230	0.990	-17.077	0.020
240	1.000	-16.990	0.020
250	0.990	-17.077	0.020
260	0.978	-17.183	0.019
270	0.956	-17.381	0.018
280	0.927	-17.648	0.017
290	0.882	-18.080	0.016
300	0.808	-18.841	0.013
310	0.733	-19.688	0.011
320	0.646	-20.785	0.008
330	0.543	-22.294	0.006
340	0.430	-24.320	0.004
350	0.324	-26.779	0.002

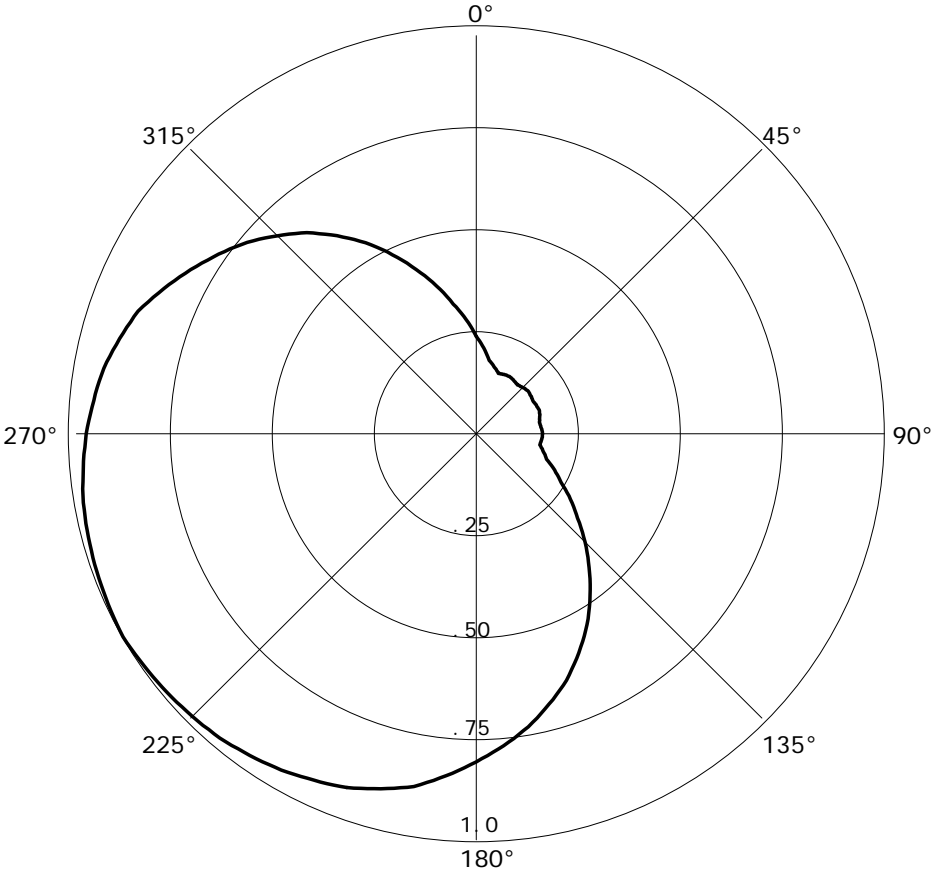


FIGURE 3 - PRESENT AND PROPOSED 60 DBU CONTOURS  
K258BB GRANITE, WYOMING, CH 205D

Coverage Study - NGDC 30 SEC  
02-11-2015

