

TECHNICAL STATEMENT AND 73.215 PROCESSING REQUEST
KBCR-FM STEAMBOAT SPRINGS, CO
FCC FORM 301
BLIZZARD BROADCASTING, LLC
APRIL 2018

This Technical Statement and 73.215 processing request is in support of a minor change application being filed by Blizzard Broadcasting, LLC for its station KBCR-FM Steamboat Springs, Colorado, facility ID 63190.

KBCR-FM seeks to relocate to a new site at the Storm Peak Communications site. It will remain a class C2 on channel 245. It seeks to lower its Effective Radiated Power to 3.0 Kilowatts, or the maximum allowed by a class C2 facility at the proposed Height Above Average Terrain antenna height of 533 meters. It will operate with a 2 bay FM antenna system with circular polarization with 0.85 wavelength spacing between the two bays. The two bay will be mounted at the 26 meter level on an existing 27.4 meter overall non-registered tower. The Center of Radiation will be 3150 meters above mean sea level.

Figure 1 is a channel spacing study conducted at the proposed tower site for KBCR-FM. It shows that all of the required spacings towards all pertinent same and adjacent channel station will be met under 73.207, with the exception of KYAP(FM) Nunn, Colorado on channel 245A, facility ID 82007. Processing under 73.215 is hereby requested in regards to KYAP(FM).

Figure 2 is a channel spacing study conducted from the proposed allotment point for KBCR-FM. All of the spacing requirement under 73.207 have been met at this location which is the center point of the community of Steamboat Springs.

Figure 3 is a detailed channel interference study conducted with the proposed facilities of KBCR-FM and the current licensed operation of KYAP(FM) Nunn, CO. Since KYAP(FM) is

licensed under the provisions of 73.215, the study was conducted utilizing the currently licensed facilities of KYAP. As can be seen, there is no prohibitive overlap between these two facilities.

Figure 4 is a map showing the predicted 70 dB μ proposed contour for KBCR-FM. It shows that the city grade contour will completely encompass the community of license, Steamboat Springs.

It was determined that the new proposed operation of KBCR-FM will meet all of the requirements by the Commission under current rules.

FIGURE 1 - CHANNEL SPACING STUDY FROM SITE
KBCR-FM STEAMBOAT SPRINGS, CO, CH. 245C2

REFERENCE			DISPLAY DATES
40 27 05.0 N.	CLASS = C2		DATA 04-15-18
106 45 04.0 W.	Current Spacings to 3rd Adj.		SEARCH 04-15-18
----- Channel 245 - 96.9 MHz -----			

Call	Channel	Location		Azi	Dist	FCC	Margin
KBCR-FM	LIC 245C2	Steamboat Springs	CO	278.1	8.39	189.5	-181.1
KYAP	LIC-N 245A	Nunn	CO	76.3	161.89	165.5	-3.6 *
KCCY-FM	LIC 245C	Pueblo	CO	138.9	249.45	248.5	1.0
KUUR	LIC-N 244A	Carbondale	CO	204.9	126.23	105.5	20.7
KBCO	LIC-D 247C	Boulder	CO	115.3	137.86	104.5	33.4
KXPK	LIC 243C	Evergreen	CO	128.3	138.12	104.5	33.6
KLHQ	CP -N 245A	Hotchkiss	CO	209.6	208.07	165.5	42.6
KAYV	LIC 246A	Crested Butte	CO	186.4	172.98	105.5	67.5
KQSW	LIC 243C	Rock Springs	WY	299.5	227.03	104.5	122.5
KQKS	LIC 298C	Lakewood	CO	121.4	159.20	34.5	124.7
KRNK	LIC-N 244C2	Casper	WY	8.1	257.26	129.5	127.8
KCMI	LIC 246C1	Terrytown	NE	60.6	292.85	157.5	135.4
DKTDM	VAC 298C2	Rawlins	WY	353.2	157.80	19.5	138.3
KCYN	LIC 246C1	Moab	UT	226.5	306.51	157.5	149.0
KWUZ	LIC-N 248C3	Poncha Springs	CO	163.9	230.67	55.5	175.2
KWUZ	LIC-Z 248A	Poncha Springs	CO	163.9	230.67	54.5	176.2
KTWY	LIC-D 246C1	Shoshoni	WY	343.2	347.39	157.5	189.9
KSYP	LIC-N 298C1	Olathe	CO	199.3	242.52	26.5	216.0
NEW	CP 247A	Lake City	CO	190.4	277.07	54.5	222.6
KZBR	LIC 246C3	La Jara	CO	170.6	346.74	116.5	230.2
KDLY	LIC 248C1	Lander	WY	328.2	312.09	78.5	233.6
KSLV-FM	LIC-N 243C3	Del Norte	CO	177.3	302.47	55.5	247.0
KSRX	LIC 248C2	Sterling	CO	88.8	305.33	57.5	247.8
KZNS-FM	LIC 248C	Coalville	UT	278.8	361.92	104.5	257.4
AL1856	VAC 242A	Lusk	WY	35.3	315.39	54.5	260.9

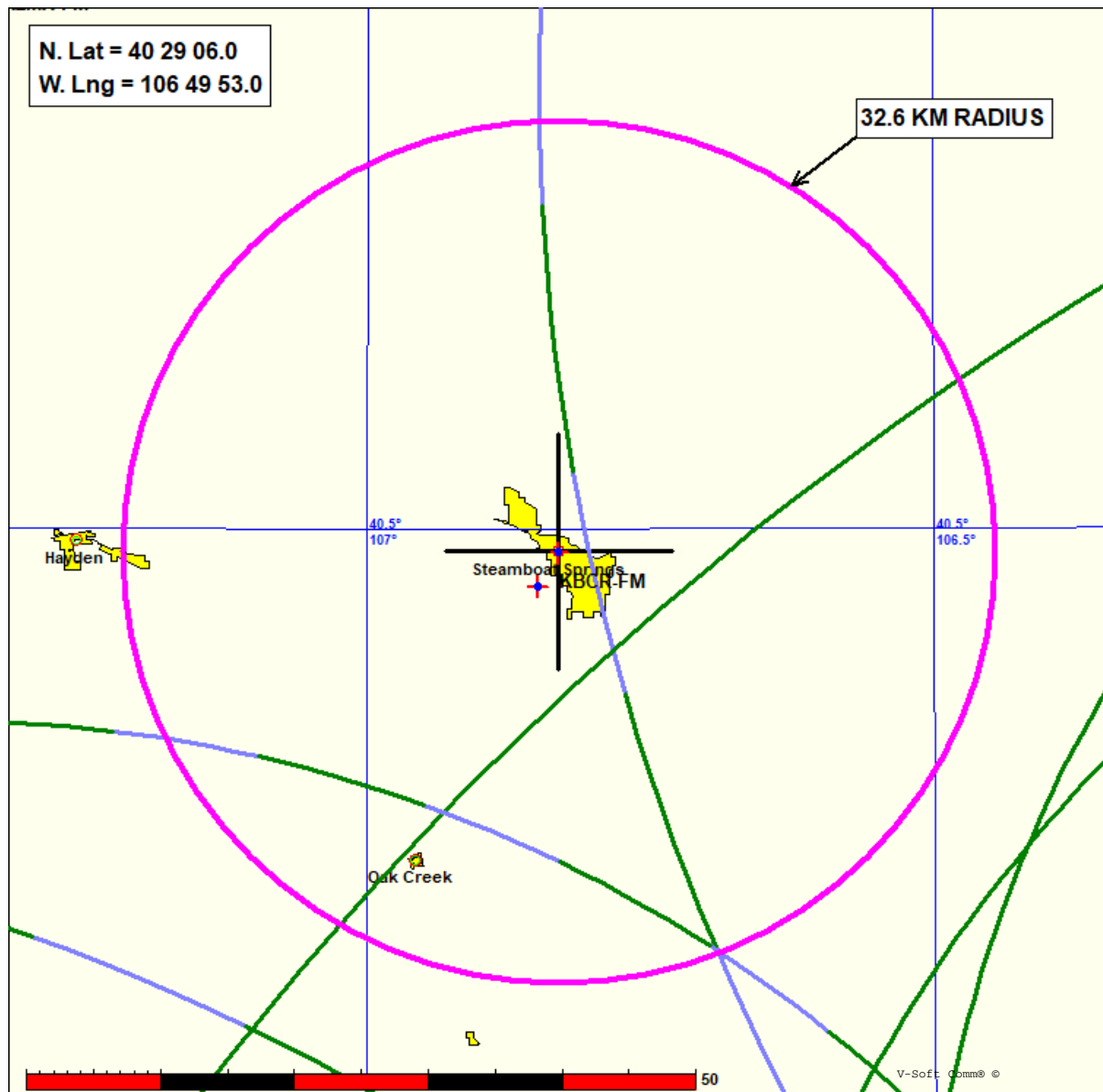
All separation margins include rounding

* Spacing under 73.215 is being requested towards KYAP(FM) Nunn, CO.
See the Technical Statement for more details.

CH 245 C2 96.9 MHz

Current Spacings to 3rd Adj.

FIGURE 2 - CHANNEL SPACING STUDY FROM ALLOTMENT POINT
KBCR-FM STEAMBOAT SPRINGS, CO, CH. 245C2



Data Date:04-15-18 Job Date:04-15-18								
Call	CH#	Type	Location		Azi	D-KM	FCC	Margin
KBCR-FM	245C2	LIC	Steamboat Spring	CO	210.4	2.97	189.5	-186.5
KYAP	245A	LIC-N	Nunn	CO	78.0	167.70	165.5	2.2
KCCY-FM	245C	LIC	Pueblo	CO	138.3	256.76	248.5	8.3
KUUR	244A	LIC-N	Carbondale	CO	201.3	126.98	105.5	21.5
KBCO	247C	LIC-D	Boulder	CO	115.4	145.61	104.5	41.1
KXPK	243C	LIC	Evergreen	CO	127.7	145.79	104.5	41.3
KLHQ.C	245A	CP -N	Hotchkiss	CO	207.4	208.08	165.5	42.6
KAYV	246A	LIC	Crested Butte	CO	184.0	176.08	105.5	70.6
KQSW	243C	LIC	Rock Springs	WY	299.5	219.26	104.5	114.8
KRNK	244C2	LIC-N	Casper	WY	9.7	254.63	129.5	125.1
KQKS	298C	LIC	Lakewood	CO	121.2	166.95	34.5	132.5
DKTDM	298C2	VAC	Rawlins	WY	355.5	153.41	19.5	133.9
KCMI	246C1	LIC	Terrytown	NE	61.8	297.03	157.5	139.5
KCYN	246C1	LIC	Moab	UT	225.1	304.22	157.5	146.7
KWUZ	248C3	LIC-N	Poncha Springs	CO	162.6	236.22	55.5	180.7
KWUZ	248A	LIC-Z	Poncha Springs	CO	162.6	236.22	54.5	181.7
KTWY	246C1	LIC-D	Shoshoni	WY	344.0	341.88	157.5	184.4

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Call	CH#	Type	Location		Azi	D-KM	FCC	Margin
KSYF	298C1	LIC-N	Olathe	CO	197.5	243.90	26.5	217.4
NEW.C	247A	CP	Lake City	CO	188.8	279.61	54.5	225.1
KDLY	248C1	LIC	Lander	WY	328.9	305.35	78.5	226.9
KZBR	246C3	LIC	La Jara	CO	169.6	351.59	116.5	235.1
KZNS-FM	248C	LIC	Coalville	UT	278.3	354.63	104.5	250.1
KSLV-FM	243C3	LIC-N	Del Norte	CO	176.0	306.60	55.5	251.1
KSRX	248C2	LIC	Sterling	CO	89.4	312.08	57.5	254.6
AL1856	242A	VAC	Lusk	WY	36.6	316.38	54.5	261.9
AL1856	242A	VAC	Lusk	WY	36.6	316.38	54.5	261.9

All separation margins include rounding

FIGURE 2 - DETAILED OVERLAP STUDY WITH KYAP NUNN, CO
KBCR-FM STEAMBOAT SPRINGS, CO, CH. 245C2

FMCommander Single Allocation Study - 04-15-2018 - NGDC 30 SEC
KBCR-FM's Overlaps (In= 0.0 km, Out= 0.0 km)

KBCR-FM CH 245 C2

Lat= 40 27 05.0, Lng= 106 45 04.0

3.0 kW 533 m HAAT, 3150 m COR

Prot.= 60 dBu, Intef.= 40 dBu

KYAP CH 245 A 73.215 N BLH20160217AAB

Lat= 40 46 51.0, Lng= 104 53 15.0

4.3 kW 115 m HAAT, 1777 m COR

Prot.= 60 dBu, Intef.= 40 dBu

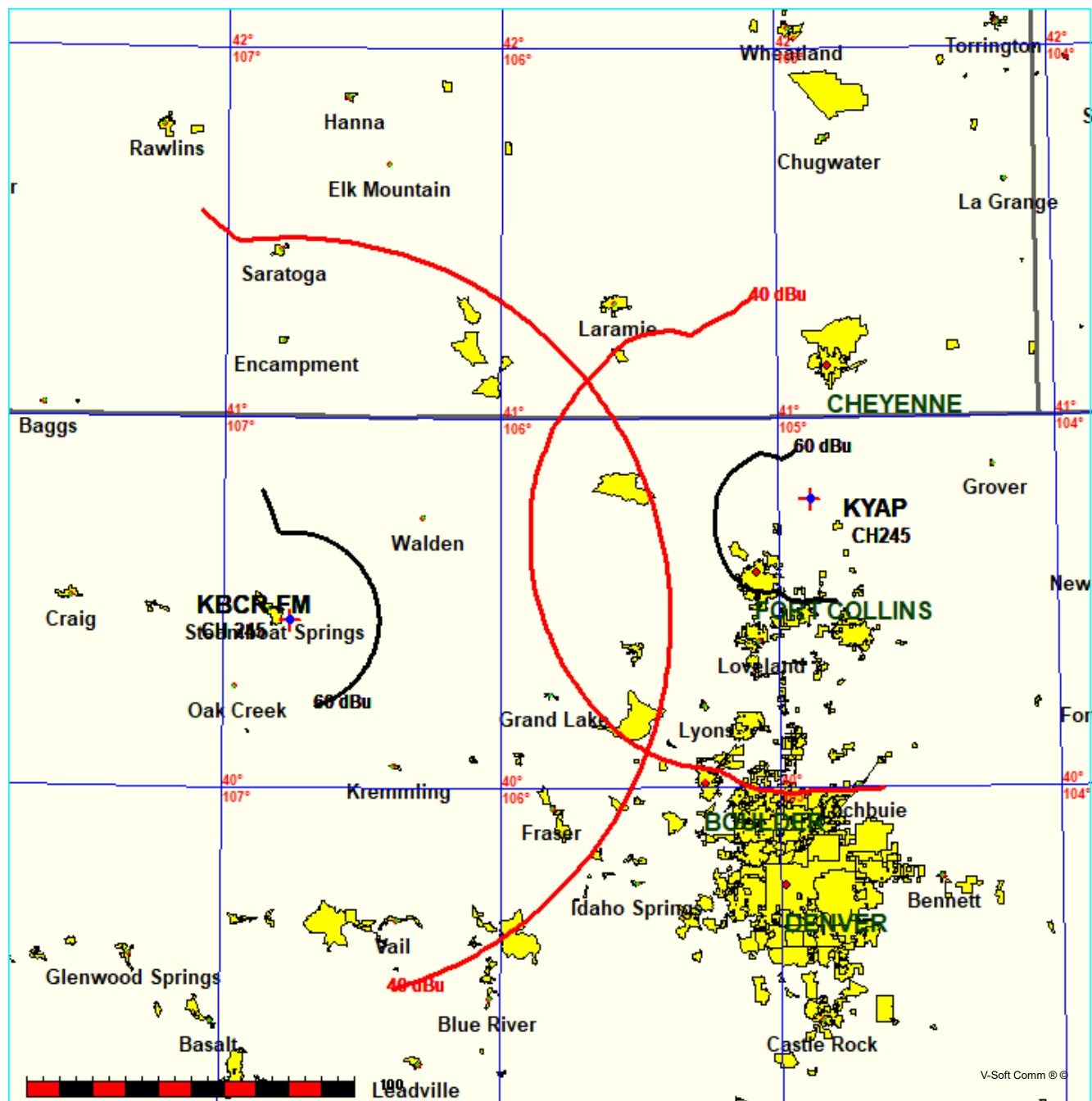


FIGURE 4 - PREDICTED 70 DBU CONTOUR
KBCR-FM STEAMBOAT SPRINGS, CO, CH. 245C2

Coverage Study - NGDC 30 SEC
04-15-2018

KBCR-FM CH245 C2, 3.0 kW, 533.0m HAAT, 3150.0m COR AMSL
Service Contour = 70 dBu. Population = 17,303

