

TECHNICAL STATEMENT  
BUFFALO, WYOMING, CHANNEL 209A  
CEDAR COVE BROADCASTING, INC.  
SCHEDULE 340  
NOVEMBER 2021

This Technical Statement is prepared on behalf of Cedar Cove Broadcasting, Inc. It is proposing a new FM station on channel 209A for Buffalo, Wyoming, with 1.0 Kilowatts (1000 watts) Effective Radiated Power (“ERP”), circular polarized antenna system and a Center of Radiation height of 1630 Meters Above Mean Sea Level. The antenna will also be located 119.3 Meters Above Average Terrain on existing non-registered tower.

The new operation was evaluated for compliance with all of the Commission technical rules and regulations for new Non-Commercial FM broadcast stations.

Compliance with Section 73.509 in regards to interference to other stations was determined as follows:

Figure 1 – Channel Interference Study. Shows compliance with interference contours towards other stations.

Figure 2 – Predicted 60 dbμ primary coverage contour for compliance with community coverage.

The application was determined to meet or exceed all of the technical requirements for a new FM Non-Commercial Station set for by the Commission.

Figure 1 - Detailed Channel Interference Study

CH# 209A - 89.7 MHz, Pwr= 1 kw, HAAT= 119.3 M, COR= 1630 M Average Protected F(50-50)= 20.35 km Omni-directional											
DISPLAY DATES DATA 11-09-21 SEARCH 11-09-21											
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*	
209A Gillette	KAXG	LIC _VN WY	92.2 273.1	94.52 BLED20081106AWL	44 12 33.90 105 28 05.90	0.400 137	49.7 1565	14.4 Hi-Line Radio Fellowship,	17.6	1.1	
207C3 Sheridan	KWCF	LIC _CN WY	330.7 150.6	45.17 BLED20090729AFG	44 36 09.80 106 55 44.20	0.850 292	1.9 1920	33.4 CSN International	19.9	9.3	
06+-- Sheridan	KSHW-LP/D«	APP D_N WY	318.4 138.1	55.68 BLTVL-20120913AAX	44 37 19.80 107 06 59.21	3.000	11.8 2357	12.9	24.7R	31.0M	
212C Casper	KCSP-FM	LIC _CN WY	170.5 350.7	169.90 BLED20140923ABP	42 44 23.90 106 18 25.10	100.000 593	17.0 2554	102.6 Western Inspirational Broa	128.0	65.5	
262C Greybull	KZMQ-FM«	LIC _CN WY	302.2 121.3	118.89 BLH20160728AAH	44 48 38.80 107 55 22.30	56.000 745	90.7 2960	67.5 Legend Communications Of w	28.5R	90.4M	
210C2 Colstrip	KYPC	LIC _CN MT	353.6 173.4	177.76 BLED20091104AEO	45 50 16.90 106 54 18.10	3.500 357	57.5 1473	38.7 Montana State University -	94.4	100.2	
206C1 Casper	KLWC	CP _CN WY	170.5 350.7	169.89 0000120972	42 44 24.00 106 18 25.00	7.300 558	5.5 2519	72.7 Educational Media Foundati	139.6	95.4	
210C1 Rapid City	KJRC	LIC _CN SD	86.8 268.7	224.90 BLED20151113BOC	44 19 41.90 103 50 04.70	25.000 485	99.6 2204	67.4 Real Presence Radio	97.8	114.9	
206C1 Cody	KNWT	LIC _CN WY	282.6 101.1	177.09 BLED20180725AAP	44 34 29.30 108 49 35.00	16.500 483	7.1 2009	68.2 University of Wyoming	155.3	106.0	
206C1 Casper	KLWC	LIC _VN WY	171.3 351.5	170.19 BLED20090513AFO	42 44 02.90 106 20 02.10	2.700 564	3.4 2527	62.2 Educational Media Foundati	142.0	106.2	
209C3 Park City	KBIL	CP _CN MT	320.5 139.2	219.93 BPED20190823AAY	45 45 33.80 108 27 07.50	4.100 203	89.6 1256	31.9 Educational Media Foundati	107.9	125.9	
06 -- Broadus	K06AA-D«	LI _N MT	37.8 218.7	164.64 BLDTV-20101103ACF	45 24 37.89 105 21 29.90	0.088	17.9 1078	7.8	25.8R	138.9M	
211C3 Powell	KUWP	LIC _CN WY	282.9 101.4	179.42 BLED19991109ABZ	44 35 13.80 108 51 10.40	0.430 495	1.5 2019	33.1 University of Wyoming	163.1	142.3	
263C1 Evansville	KTED«	LIC _CN WY	170.9 351.1	167.67 BLH20080311ABW	42 45 29.80 106 19 25.00	10.000 437	90.7 2362	67.5 Breck Media Group Wyoming,	21.5R	146.2M	
209C3 Park City	KBIL	LIC DVN MT	317.8 136.3	244.02 BMLED20130307ABM	45 51 11.80 108 45 52.50	2.700 160	72.7 1314	24.7 Educational Media Foundati	149.2	159.0	
206C2 Hudson	KMJB	LIC _CN WY	222.6 41.2	249.73 BLED20111102AIB	42 34 41.80 108 42 48.40	3.000 406	3.6 2762	61.3 Western Inspirational Broa	227.0	186.7	
210C2 Rawlins	KUWI	CP _CN WY	189.7 9.3	289.20 0000106103	41 40 52.60 107 14 13.26	9.000 322	79.5 2487	53.6 University of Wyoming	187.2	204.1	
206A Spearfish	KBHU-FM	LIC _HN SD	81.9 263.9	223.23 BLED19940930KD	44 29 47.90 103 52 14.70	0.100 -106	0.7 1128	5.6 Black Hills State Universi	194.9	215.6	
211A Billings	KBLW	LIC _CN MT	320.5 139.2	220.06 BLED20151228BAE	45 45 36.80 108 27 11.50	1.600 137	1.8 1187	19.8 Hi-Line Radio Fellowship,	195.7	198.6	
207A Billings	KLMT	LIC _CN MT	320.5 139.2	220.47 BLED20170907ABU	45 45 49.30 108 27 20.40	1.500 153	1.9 1203	21.4 Western Inspirational Broa	196.1	197.5	
210C3 Rawlins	KUWI	LIC _CN WY	189.7 9.3	289.39 BLED20091016AEL	41 40 45.80 107 14 10.10	2.000 301	61.4 2495	40.6 University of Wyoming	205.4	217.4	
212A Rapid City	KASD	LIC _CN SD	93.0 275.4	272.65 BLED20180524AAL	44 04 13.00 103 15 02.70	3.000 133	1.6 1231	13.2 Community Broadcasting, In	243.4	255.0	
207C3 Rapid City	KBHE-FM	LIC _CN SD	93.4 275.8	273.35 BLED19840416CB	44 03 08.90 103 14 39.60	9.800 125	1.8 1228	18.0 South Dakota Board Of Dire	243.9	250.8	
262C1 Rapid City	KFXS«	LIC _CN SD	93.0 275.4	272.65 BLH19990625KE	44 04 13.00 103 15 02.70	100.000 141	90.7 1248	67.5 Homeslice Media Group, LLC	21.5R	251.2M	

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= - Zone 2, 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 - Predicted 60 dBu Contour  
Buffalo, WY, CH. 209A

Coverage Study - NGDC 30 SEC  
11-09-2021

New CH209 A , 1.0 kW, 119.3m HAAT, 1630.0m COR AMSL  
Service Contour = 60 dBu.

