

TECHNICAL STATEMENT
KIRBY, WYOMING, CHANNEL 208C2
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 208C2 for Kirby, Wyoming, with 1.2 Kilowatts (1,200 watts) Effective Radiated Power (“ERP”), circular polarized antenna system and a Center of Radiation height of 2510 Meters Above Mean Sea Level. The antenna will also be located 599.4 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.

Figure 3 – NCE FM Services Map showing second NCE FM service to 6,565 persons.

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

Kirby, Wyoming, Ch. 208C2

REFERENCE 43 26 15.00 N.
107 59 57.00 W.

CH# 208C2 - 89.5 MHz, Pwr= 1.2 kW, HAAT= 599.4 M, COR= 2510 M
Average Protected F(50-50)= 46.31 km
Omni-directional

DISPLAY DATES
DATA 11-09-21
SEARCH 11-09-21

CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
206C2 Hudson	KMJB	LIC _CN WY	211.5 31.1	111.81 BLED20111102AIB	42 34 41.80 108 42 48.40	3.000 406	3.6 2762	61.4 Western Inspirational Broa	53.2	48.0
206C1 Cody	KNWT	LIC _CN WY	332.7 152.1	142.72 BLED20180725AAP	44 34 29.30 108 49 35.00	16.500 483	6.5 2009	62.0 University of Wyoming	90.7	78.4
207C3 Sheridan	KWCF	LIC _CN WY	33.1 213.8	155.32 BLED20090729AFG	44 36 09.80 106 55 44.20	0.850 292	13.6 1920	9.8 CSN International	103.0	80.5
208A Reliance	KTME	LIC _CN WY	207.6 26.6	242.39 BLED20101004AAC	41 29 46.90 109 20 43.90	0.350 342	84.9 2361	29.0 Western Inspirational Broa	102.6	83.1
206C1 Casper	KLWC	CP _CN WY	118.9 300.0	158.08 0000120972	42 44 24.00 106 18 25.00	7.300 558	5.4 2519	69.6 Educational Media Foundati	103.4	85.9
206C1 Casper	KLWC	LIC _VN WY	119.5 300.6	156.50 BLED20090513AFO	42 44 02.90 106 20 02.10	2.700 564	3.4 2527	58.5 Educational Media Foundati	103.8	94.6
211C3 Powell	KUWP	LIC _CN WY	332.2 151.6	144.93 BLED19991109ABZ	44 35 13.80 108 51 10.40	0.430 495	1.5 2019	29.0 University of Wyoming	98.0	113.6
210A Pinedale	KWCN	LIC _CN WY	247.8 66.4	169.89 BLED20120928ANQ	42 50 38.70 109 55 25.50	0.075 131	0.6 2353	10.0 wcn, Inc.	114.9	155.8
262C Greybull	KZMQ-FM«	LIC _CN WY	2.3 182.3	152.71 BLH20160728AAH	44 48 38.80 107 55 22.30	56.000 745	90.7 2960	67.5 Legend Communications Of w	34.5R	118.2M
06+-- Sheridan	KSHW-LP/D«	APP D_N WY	27.9 208.5	149.44 BLTVL-20120913AAX	44 37 19.80 107 06 59.21	3.000	26.8 2357	2.7	29.5R	120.0M
205A Sheridan	KOHR	LIC _VN WY	29.0 209.8	173.68 BLED20081201ALX	44 47 53.90 106 55 53.20	0.425 22	1.4 1248	8.1 Hi-Line Radio Fellowship,	134.0	162.1
210C2 Rawlins	KUWI	CP _CN WY	162.0 342.5	204.88 0000106103	41 40 52.60 107 14 13.26	9.000 322	4.9 2487	50.4 University of Wyoming	147.1	152.2
210C3 Rawlins	KUWI	LIC _CN WY	162.0 342.5	205.10 BLED20091016AEL	41 40 45.80 107 14 10.10	2.000 301	2.7 2495	38.0 University of Wyoming	149.5	164.8
209A Gillette	KAXG	LIC _VN WY	66.2 248.0	220.92 BLED20081106AWL	44 12 33.90 105 28 05.90	0.400 137	20.6 1565	13.6 Hi-Line Radio Fellowship,	164.7	153.7
209C3 Park City	KBIL	CP _CN MT	352.3 171.9	260.50 BPED20190823AAY	45 45 33.80 108 27 07.50	4.100 203	44.1 1256	28.7 Educational Media Foundati	171.6	164.7
206C3 Jackson	KHOL	LIC _CN WY	271.6 89.7	222.94 BLED20080311ABJ	43 27 39.70 110 45 11.70	2.200 336	1.6 2489	12.3 Jackson Hole Community Rad	171.1	193.1
207A Billings	KLMT	LIC _CN MT	352.2 171.9	261.02 BLED20170907ABU	45 45 49.30 108 27 20.40	1.500 153	26.9 1203	18.0 Western Inspirational Broa	189.3	175.1
209C3 Park City	KBIL	LIC DVN MT	347.6 167.0	275.23 BMLED20130307ABM	45 51 11.80 108 45 52.50	2.700 160	41.4 1314	27.1 Educational Media Foundati	188.4	179.3
205C2 Saratoga	KAIW	LIC _CN WY	148.7 329.6	234.07 BLED20170208AAL	41 37 48.90 106 32 02.90	0.580 996	1.6 3339	50.1 University of Wyoming	180.2	181.6
205A Gillette	KLOF	LIC _CN WY	66.2 248.0	220.92 BLED20121001AMV	44 12 33.90 105 28 06.00	1.400 121	1.6 1549	17.1 Educational Media Foundati	183.6	200.9
262C2 Wilson	KCHQ«	RSV-A ____ WY	271.6 89.7	222.95	43 27 39.75 110 45 11.75	50.000 150	90.7 2299	67.5 Jackson Hole Media LLC	19.5R	203.5M
210A Afton	KBYA	LIC _CN WY	250.8 68.8	259.76 BLED201111006ACE	42 37 57.70 110 59 30.70	0.680 80	1.6 2276	9.2 Brigham Young University -	204.1	235.3
207A Laramie	KTDX	LIC _CN WY	137.7 319.4	315.84 BLED20081010BIM	41 18 38.90 105 27 13.90	0.450 347	48.3 2751	30.9 Educational Communications	216.5	208.2
207C2 Steamboat Springs	KLBV	LIC _VN CO	162.3 343.2	347.44 BLED20091125AGM	40 27 03.90 106 45 08.10	2.600 528	79.0 3146	51.0 Educational Media Foundati	215.9	210.3
261C1 Glendo	KKTY-FM«	CP _CN WY	107.3 289.2	237.56 0000124168	42 46 13.30 105 13 35.50	80.000 139	90.7 1681	67.5 Douglas Broadcasting, Inc.	26.5R	211.1M

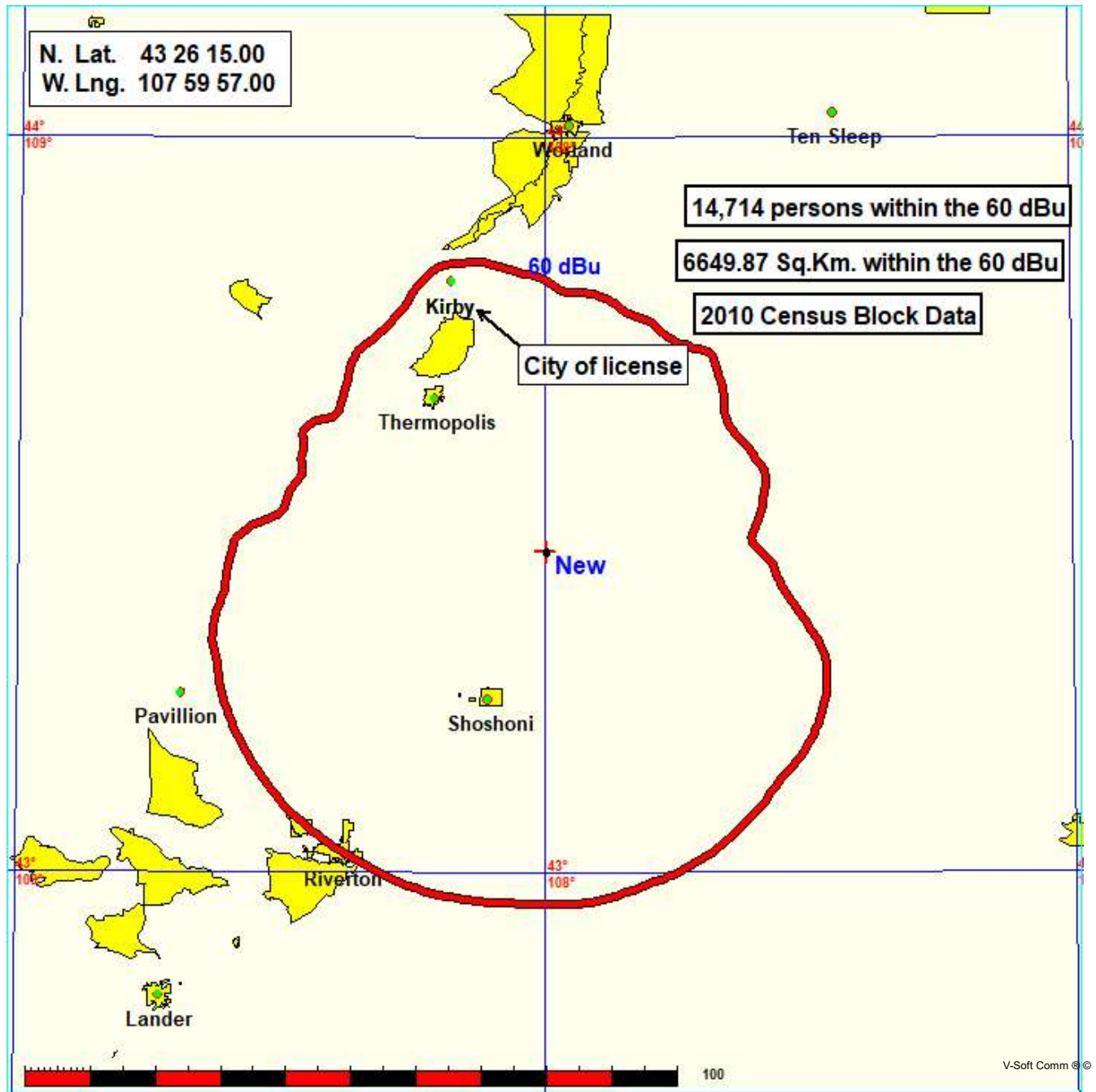
CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	Page # 2 *IN* (Overlap	*OUT* in km)
261C1 Glendo	KKTY-FM«	LIC _CN WY		107.3 289.2	237.84 BLH20090424ABG	42 46 12.80 105 13 22.90	100.000 139	90.7 1677	67.5 Douglas Broadcasting, Inc.	26.5R	211.3M
209C2 Evanston	KUWE	LIC _CN WY		226.9 44.9	333.26 BLED20130211ACE	41 21 13.80 110 54 40.60	2.000 404	56.9 2581	38.0 University Of Wyoming	220.8	212.4
211A Billings	KBLW	LIC _CN MT		352.2 171.9	260.61 BLED20151228BAE	45 45 36.80 108 27 11.50	1.600 137	1.6 1187	15.6 Hi-Line Radio Fellowship,	214.2	240.0
207A Big Timber	KYPB	LIC _CN MT		329.6 148.2	300.28 BLED20101027ACA	45 45 00.80 109 57 18.70	0.500 126	12.0 1527	8.5 Montana State University -	243.1	218.0
205A Lockwood	KYWH	LIC DVN MT		347.6 167.0	275.23 BLED20060127ANY	45 51 11.80 108 45 52.50	1.900 138	0.6 1292	14.4 Fresh Life Church, Inc.	229.1	254.8
207C2 Roosevelt	KUOU	LIC _VN UT		204.1 23.0	351.56 BMLED20120113AEG	40 32 15.80 109 41 59.50	2.500 524	49.4 2654	30.9 University Of Utah	248.4	229.1
210C2 Colstrip	KYPC	LIC _CN MT		17.6 198.4	280.52 BLED20091104AEO	45 50 16.90 106 54 18.10	3.500 357	3.4 1473	40.9 Montana State University -	238.0	236.3
211A Laramie	KUWL	LIC _CN WY		137.7 319.4	315.83 BLED20080303AIZ	41 18 35.90 105 27 18.90	0.110 295	0.7 2699	20.8 University Of Wyoming	264.0	292.0
210C3 Livingston	KYPM	LIC _CN MT		320.8 139.0	314.05 BLED20130513ADH	45 35 50.70 110 32 47.70	1.900 265	1.6 2020	11.9 Montana State University -	268.9	282.7
210C1 Rapid City	KJRC	LIC _CN SD		72.0 254.9	349.01 BLED20151113BOC	44 19 41.90 103 50 04.70	25.000 485	7.3 2204	63.3 Real Presence Radio	305.9	281.6
211C2 Hayden	KHCO	LIC _VN CO		162.3 343.2	347.44 BLED20091125AGK	40 27 03.90 106 45 08.10	1.800 522	2.8 3140	47.1 Educational Media Foundati	291.7	290.5
261A Soda Springs	KCHQ«	LIC _HN ID		254.5 72.0	307.39 BLH19811229AK	42 38 29.70 111 36 42.80	3.000 -84	90.7 1831	67.5 Jackson Hole Media LLC	14.5R	292.9M
210A Torrington	KEUW	LIC _CN WY		114.7 297.2	346.44 BLED20140312AAN	42 04 34.80 104 11 29.80	6.000 4	1.6 1299	15.8 University Of Wyoming	296.0	327.7
206A Spearfish	KBHU-FM	LIC _HN SD		69.0 251.8	351.59 BLED19940930KD	44 29 47.90 103 52 14.70	0.100 -106	0.7 1128	5.6 Black Hills State Universi	315.1	343.7

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

Figure 2 - Predicted 60 dBu Contour
Kirby, Wyoming, Ch. 208C2

Coverage Study - NGDC 30 SEC
11-09-2021

New CH208 C2, 1.2 kW, 599.4m HAAT, 2510.0m COR AMSL
Service Contour = 60 dBu.



New Kirby, WY

Latitude: 43-26-15 N
Longitude: 107-59-57 W
ERP: 1.20 kW
Channel: 208
Frequency: 89.5 MHz
AMSL Height: 2493.0 m
Elevation: 2411.25 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

- First NCE FM service area
- Second NCE FM service area

- New
- KMJB
- KRKM
- KUWW
- KUWT
- KCWC-FM

Service Count Population Report

Population Database: 2010 US Census Block Data

	Service Pop	Running Total	%
2nd Service	6,565	6,565	44.6
3rd Service (or >)	8,149	14,714	100.0

FIGURE 3 - NCE FM SERVICES MAP
with New FM at Kirby, WY, CH. 208C2

