

TECHNICAL STATEMENT
KIMBALL, NEBRASKA, CHANNEL 201A
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 201A for Kimball, Nebraska, with 0.85 Kilowatts (850 watts) Effective Radiated Power (“ERP”), circular polarized antenna system and a Center of Radiation height of 1468 Meters Above Mean Sea Level. The antenna will also be located minus (-2.6) 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 dB μ primary coverage contour for compliance with community coverage.

Figure 3- NCE services maps showing first NCE FM service.

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

Kimball, Nebraska, Ch. 201a

REFERENCE CH# 201A - 88.1 MHz, Pwr= 0.85 kW, HAAT= -2.6 M, COR= 1468 M
 41 15 08.00 N. Average Protected F(50-50)= 9.76 km
 103 39 51.00 W. Omni-directional

DISPLAY DATES
 DATA 11-07-21
 SEARCH 11-08-21

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*
201A Cheyenne	KFCY	APP _CN WY	263.7 83.0	89.33 0000162801	41 09 34.50 104 43 19.80	3.500 64	79.0 1898	25.6 Cedar Cove Broadcasting, I	0.5	30.0
201A Cheyenne	KFCY	LIC _CN WY	263.7 83.0	89.33 BMLED20140611ABG	41 09 34.90 104 43 19.90	1.800 63	69.1 1898	22.0 Cedar Cove Broadcasting, I	10.5	33.6
254C1 Sidney	KSID-FM«	LIC _CN NE	101.0 281.3	39.98 BLH20180629AAT	41 10 57.90 103 11 46.70	100.000 117	90.7 1461	67.5 Flood Communications West,	21.5R	18.5M
202A Scottsbluff	KLJV	LIC _CN NE	348.0 167.9	66.66 BMLED20080523AEY	41 50 20.90 103 49 54.80	0.390 238	25.0 1532	16.4 Educational Media Foundati	32.0	33.9
201C3 Lakewood	KVOD	LIC _CN CO	218.7 37.7	215.00 BLED20180405ABR	39 43 58.00 105 14 10.00	4.400 238	135.4 2275	56.9 Public Broadcasting Of Col	69.9	124.2
204A South Greeley	KDNR	LIC DCN WY	262.0 81.1	115.44 BLED20170926AFN	41 06 02.00 105 01 31.00	2.500 127	2.8 2153	33.2 western Inspirational Broa	102.9	80.5
202A Fort Collins	KVXO	LIC _CN CO	243.7 62.6	156.84 BLED20140731AQY	40 36 59.90 105 19 37.90	0.140 374	47.3 2545	30.3 Public Broadcasting Of Col	99.8	112.8
203C2 Boulder	KGNU-FM	APP DCN CO	219.5 38.7	165.31 0000157412	40 05 57.00 104 54 03.20	6.500 339	3.9 1859	47.2 Boulder Community Broadcas	151.6	114.7
201A Crawford	KCFD	LIC _CN NE	7.3 187.5	160.45 BLED20170426ABT	42 41 05.30 103 24 53.40	0.100 -63	18.6 1136	5.6 Southern Cultural Foundati	132.1	121.1
06 2C Hayes Center	KWNB-TV«	CP _HN NE	106.6 288.3	232.51 0000035798	40 37 32.01 101 01 47.01	45.000 221	24.6 1160	84.5 University of Wyoming	109.1R	123.4M
203A Laramie	KUWY	LIC _CN WY	273.0 91.9	150.19 BLED20080303AJB	41 18 35.90 105 27 18.90	0.135 298	0.8 2703	19.1 University of Wyoming	139.6	129.4
06 2C Hayes Center	KWNB-TV«	LI _HN NE	106.6 288.3	232.51 BLCDT-20090604ABL	40 37 32.01 101 01 47.01	11.900 221	24.6 1160	71.1 University of Wyoming	95.7R	136.9M
6 -- Hayes Center	KWNB-TV-A«	CHA _Y NE	106.6 288.3	232.52 DTVBL21162	40 37 32.02 101 01 46.57	11.900 221	24.6 1160	71.1 University of Wyoming	95.7R	136.9M
06 -- Crawford	K06KR-D«	LI D_N NE	7.7 187.9	158.98 BLDTV-20081125ANV	42 40 12.80 103 24 10.69	0.028	20.2 1179	1.6 University of Wyoming	21.8R	137.2M
201A Wray	KHTU	LIC _VN CO	136.9 317.9	178.19 BLED20110516AAA	40 04 23.90 102 14 04.60	0.100	18.6 1097	5.6 Home Town Radio	148.8	138.8
254A Laramie	KRQU«	LIC NCN WY	273.1 91.9	150.07 BLH20120723ADO	41 18 38.90 105 27 13.90	0.110 327	90.7 2730	67.5 Appaloosa Broadcasting Com	9.5R	140.6M
203A Boulder	KGNU-FM	LIC DCN CO	222.4 41.4	188.36 BLED20100528ADY	39 59 32.90 105 09 17.90	4.000 65	3.1 1732	34.7 Boulder Community Broadcas	175.5	152.0
204A Wray	KHTU	APP _VN CO	136.4 317.3	182.02 0000162610	40 03 30.00 102 11 22.00	6.000 86	2.4 1207	24.3 Home Town Radio	168.6	155.1
06 -- Chadron	K06JC-D«	LI D_N NE	17.2 197.6	181.71 BLDTV-20081121AKA	42 48 47.01 103 00 24.01	0.066	20.2 1153	4.4 University of Wyoming	24.6R	157.1M
255C1 Manville	AU6229552«	VAC _N WY	335.4 154.8	187.08 RM	42 46 44.88 104 37 03.86	100.000 299	90.7 1910	67.5 University of Wyoming	21.5R	165.6M
204C1 Douglas	KRKY-FM	APP _HN WY	324.5 143.5	220.71 0000162803	42 51 28.90 105 14 04.90	60.000 101	5.7 1658	49.9 Cedar Cove Broadcasting, I	205.3	168.7
204C3 Pine Ridge	KVKR	LIC _CN SD	25.1 205.8	194.20 BLED20130903AGV	42 49 46.90 102 39 09.60	4.000 133	2.2 1279	22.7 Southern Cultural Foundati	182.2	169.9
204C3 Douglas	KRKY-FM	LIC _HN WY	324.5 143.5	220.71 0000101347	42 51 28.90 105 14 04.90	23.000 101	4.4 1658	41.6 Cedar Cove Broadcasting, I	206.6	177.1
204C3 Douglas	KRKY-FM	CP _HN WY	324.5 143.5	220.71 BPED20190912ABI	42 51 28.90 105 14 04.90	23.000 101	4.4 1658	41.6 Cedar Cove Broadcasting, I	206.6	177.1
202C3 Winter Park	KFFR	LIC DHN CO	233.1 51.7	227.11 0000161226	40 00 28.00 105 47 40.00	10.000 -171	23.2 2754	15.5 Fraser Valley Community Me	194.2	196.3

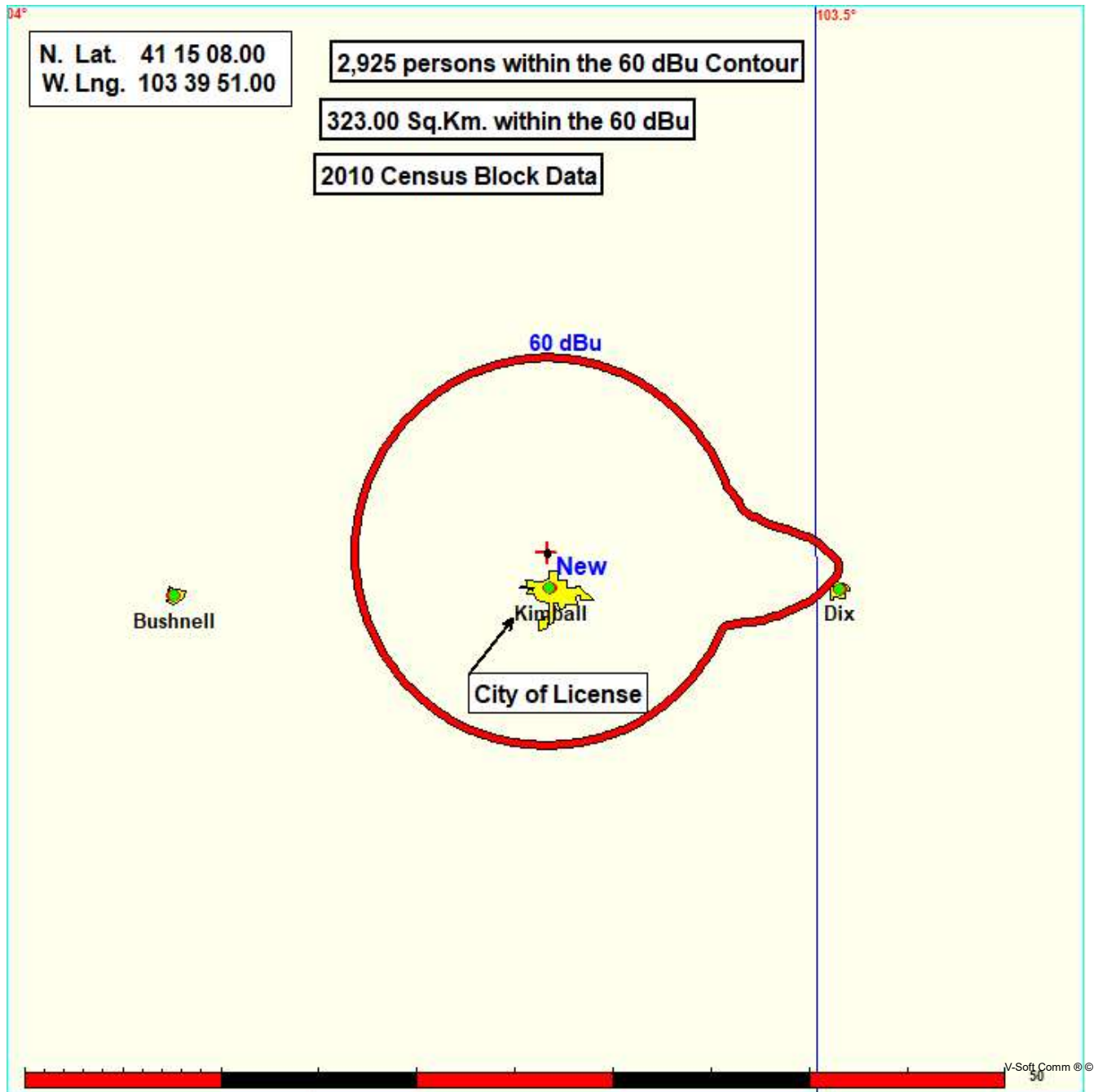
Page # 2											
CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
202C1 Casper	KAIX	CP_WY	_CN	308.0 126.3	274.33 0000118404	42 44 24.00 106 18 25.00	3.700 558	66.3 2519	43.9 Educational Media	198.6	206.7 Foundati
204C1 Manitou Springs	KCME	LIC_CO	_CN	200.5 19.7	296.64 BLED19990203KA	38 44 39.90 104 51 42.90	12.000 668	7.0 2918	82.5 Cheyenne Mountain	279.9	212.6 Public B
202C2 Casper	KAIX	LIC_WY	_CN	307.5 125.7	277.88 0000113904	42 44 26.00 106 21 36.00	0.850 559	32.9 2480	22.1 Educational Media	235.2	233.8 Foundati
255C2 Steamboat Springs	KCOQ«	LIC_CO	NCN	252.1 70.1	274.34 BLH20181210ABR	40 27 15.90 106 44 36.10	2.100 543	90.7 3186	67.5 Radio Partners LLC	14.5R	259.8M
255C Pueblo	KKMG«	LIC_CO	_CN	200.5 19.7	296.55 BLH19951005KA	38 44 42.90 104 51 42.90	72.000 695	90.7 2946	67.5 Radio License Holding Cbc,	28.5R	268.1M
203A Steamboat Springs	KRNC	LIC_CO	_CN	252.9 70.8	282.58 BLED20060418ADQ	40 27 42.90 106 50 59.20	0.240 183	1.1 2528	7.0 Community Radio of Norther	271.7	272.3
203A Vail	KVQI	LIC_CO	_CN	233.2 51.4	298.15 BLED20091112AJH	39 36 55.90 106 26 59.10	5.000 -241	1.6 2730	15.0 Public Broadcasting Of Col	286.8	281.5

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
Kimball, Nebraska, Ch. 201A

Coverage Study - NGDC 30 SEC
11-08-2021

New CH201 A , 0.85 kW, -2.6m HAAT, 1468.0m COR AMSL
Service Contour = 60 dBu.



New Kimball, NE

Latitude: 41-15-08 N
Longitude: 103-39-51 W
ERP: 0.85 kW
Channel: 201
Frequency: 88.1 MHz
AMSL Height: 1468.0 m
Elevation: 1421.6 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

- First NCE FM Service Area
- Second NCE FM Service Area

FIGURE 3 - NCE FM SERVICES MAP
WITH NEW FM - KIMBALL, NE

