

TECHNICAL STATEMENT
KRKY-FM DOUGLAS, WYOMING, CHANNEL 204C1
CEDAR COVE BROADCASTING, INC
MINOR CHANGE APPLICATION
OCTOBER 2021

This Technical Statement is prepared on behalf of Cedar Cove Broadcasting, Inc., licensee of KRKY-FM Douglas, Wyoming, facility ID 176144. KRKY-FM is proposing to modify its licensed operation of KRKY-FM Douglas, Wyoming, currently authorized on channel 204C3. KRKY-FM seeks to remain at its existing tower site, and change its ERP to 60 kilowatts, with horizontal only polarization, and antenna to remain with its center of Radiation Height AMSL to 1658 meters and 101 meters HAAT. KRKY-FM seeks to “one step” channel change from 204C3 to 204C1.

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 principle 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 Inteference Study

KRKY-FM Douglas, WY, Ch. 204C1

REFERENCE
42 51 28.90 N.
105 14 04.90 W.

CH# 204C1 - 88.7 MHz, Pwr= 60 kw, HAAT= 100.7 M, COR= 1658 M
Average Protected F(50-50)= 46.44 km
Omni-directional

DISPLAY DATES
DATA 10-04-21
SEARCH 10-04-21

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*
204C3 Douglas	KRKY-FM	CP _HN WY	0.0 0.0	0.00 BPED20190912ABI	42 51 28.90 105 14 04.90	23.000 101	1658	---Reference--- Cedar Cove Broadcasting, I		
204C3 Douglas	KRKY-FM	LIC _HN WY	0.0 0.0	0.00 0000101347	42 51 28.90 105 14 04.90	23.000 101	1658	---Reference--- Cedar Cove Broadcasting, I		
257A Douglas	KKTS-FM«	LIC _CN WY	239.2 59.0	28.13 BMLH20141028AAZ	42 43 41.80 105 31 47.90	2.350 162	19.5 1780	5.9 Douglas Broadcasting, Inc	21.5R	6.6M
204A Kaycee	KUWK	LIC _CN WY	315.1 134.1	164.31 BLED20131018AIS	43 53 41.30 106 40 50.40	1.600 99	69.0 1664	22.2 University Of Wyoming	63.3	19.5
206C1 Casper	KLWC	CP _CN WY	261.8 81.1	88.69 0000120972	42 44 24.00 106 18 25.00	7.300 558	5.1 2519	58.4 Educational Media Foundati	36.7	25.1
202C1 Casper	KAIX	CP _CN WY	261.8 81.1	88.69 0000118404	42 44 24.00 106 18 25.00	3.700 558	3.8 2519	51.8 Educational Media Foundati	37.9	31.6
206C1 Casper	KLWC	LIC _VN WY	261.6 80.9	90.97 BLED20090513AFO	42 44 02.90 106 20 02.10	2.700 564	3.1 2527	41.8 Educational Media Foundati	40.9	43.9
204A South Greeley	KDNR	LIC DCN WY	174.9 355.0	195.97 BLED20170926AFN	41 06 02.00 105 01 31.00	2.500 127	65.6 2153	21.3 Western Inspirational Broa	86.4	42.1
202C2 Casper	KAIX	LIC _CN WY	262.3 81.5	92.97 0000113904	42 44 26.00 106 21 36.00	0.850 559	1.9 2480	29.0 Educational Media Foundati	44.3	58.8
205C2 Saratoga	KAIW	LIC _CN WY	218.5 37.6	173.49 BLED20170208AAL	41 37 48.90 106 32 02.90	0.580 996	75.8 3339	51.3 University Of Wyoming	48.9	47.2
204C3 Pine Ridge	KVCR	LIC _CN SD	90.0 271.7	211.10 BLED20130903AGV	42 49 46.90 102 39 09.60	4.000 133	90.3 1279	32.5 Southern Cultural Foundati	79.0	47.9
205A Gillette	KLOF	LIC _CN WY	352.9 172.8	151.32 BLED20121001AMV	44 12 33.90 105 28 06.00	1.400 121	35.6 1549	23.7 Educational Media Foundati	67.3	52.9
203A Laramie	KUWY	LIC _CN WY	186.1 6.0	172.91 BLED20080303AJB	41 18 35.90 105 27 18.90	0.135 298	24.8 2703	16.5 University Of Wyoming	105.3	87.7
06 -- K06KR-D« Crawford		LI D_N NE	97.3 278.6	151.37 BLDTV-20081125ANV	42 40 12.80 103 24 10.69	0.028	56.3 1179	2.9	59.2R	92.2M
201A Gillette	KGLL	LIC _VN WY	353.2 173.0	153.60 BLED20100421AAQ	44 13 49.90 105 27 47.00	0.200 85	1.0 1508	11.7 Real Presence Radio	104.1	136.5
206C3 Scottsbluff	KDAI	LIC _CN NE	134.0 315.0	161.77 BLED20080523AER	41 50 20.90 103 49 54.80	1.400 238	2.3 1532	32.2 Educational Media Foundati	110.3	124.0
201A Crawford	KCFD	LIC _CN NE	96.8 278.0	150.18 BLED20170426ABT	42 41 05.30 103 24 53.40	0.100 -63	0.7 1136	5.6 Southern Cultural Foundati	110.6	140.5
202A Scottsbluff	KLJV	LIC _CN NE	134.0 315.0	161.77 BMLE20080523AEY	41 50 20.90 103 49 54.80	0.390 238	1.4 1532	23.9 Educational Media Foundati	111.2	132.3
202C Rapid City	KLMP	LIC _CN SD	34.1 215.1	198.66 BLED20050415ACE	44 19 41.90 103 50 04.70	63.000 522	10.2 2232	75.3 Bethesda Christian Broadca	134.1	117.0
06 -- K06JC-D« Chadron		LI D_N NE	90.8 272.3	182.23 BLDTV-20081121AKA	42 48 47.01 103 00 24.01	0.066	59.6 1153	1.5	61.1R	121.1M
207A Laramie	KTDX	LIC _CN WY	186.1 5.9	172.80 BLED20081010BIM	41 18 38.90 105 27 13.90	0.450 347	1.5 2751	24.5 Educational Communications	128.5	143.7
258C1 Keystone	KRKI«	LIC _HN SD	46.4 227.5	162.84 BLH20121004ABW	43 51 23.90 103 45 51.70	100.000 224	19.5 2119	5.9 Bad Lands Broadcasting Com	33.5R	129.3M

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. 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
KRKY-FM Douglas, WY, Ch. 204C1

Coverage Study - NGDC 30 SEC
10-04-2021

KRKY-FM CH204 C1, 60.0 kW, 100.7m HAAT, 1658.0m COR AMSL
Service Contour = 60 dBu.

