

TECHNICAL STATEMENT
K245BE CUSTER, SOUTH DAKOTA
CEDAR COVE BROADCASTING, INC.
FCC FORM 349
JULY 2011

This Technical Statement is in support of FCC form 349 filed by Cedar Cove Broadcasting, Inc. for a minor change in the licensed facility of K245BE, facility ID 148078. It is proposing to reduce its Effective Radiated Power from 250 watts to 10 watts. Replace its directional antenna with a non-directional antenna. No other changes are proposed.

Figure 1 shows a channel interference study conducted from the proposed site for K245BE. It shows that the proposed operation of K245BE on channel 245D, will not cause any prohibited outgoing interference to any licensed or proposed FM services.

Since the proposed operation of K245BE will remain at its currently licensed tower site, it can be assumed that the proposed K245BE will 60 dB μ overlap with the currently licensed operation of K245BE.

It was concluded that the new proposed operation of K245BE Custer, South Dakota on channel 245D will not cause any harmful interference to any existing stations, and will be in full compliance with the commission's rules.

FIGURE 1, DETAILED CHANNEL INTERFERENCE STUDY
K245BE CUSTER, SD, CH. 245
Average Protected F(50-50)= 10.46 km
Omni-directional

REFERENCE
43 52 10.0 N.
103 45 00.0 W.

DISPLAY DATES
DATA 07-15-11
SEARCH 07-15-11

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*
245D Custer	K245BE	LIC DC_ SD	0.0 0.0	0.0 BLFT20110407ACS	43 52 10.0 103 45 00.0	0.250 321	60.5 2205	19.5 Cedar Cove Broadcasting, I	-69.6*	-49.7*
244A Hot Springs	KZMX-FM	LIC _HN SD	153.5 333.7	53.0 BMLH19901010KC	43 26 34.0 103 27 27.0	1.400 135	15.6 1283	11.0 Mt. Rushmore Broadcasting,	25.7	21.2
246L1 Rapid City	KFND-LP	LIC ____ SD	64.2 244.5	44.6 BLL20061221ABY	44 02 35.0 103 14 54.0	0.013 80	4.8 1189	3.4 Calvary Chapel Of The Blac	27.9	23.4
248D Rapid City	K248BT	LIC _C_ SD	63.8 244.1	45.0 BLFT20090825BIV	44 02 49.0 103 14 45.0	0.180 167	0.9 1270	6.5 New Rushmore Radio, Inc.	32.1	38.3
242D Rapid City	K242BK	LIC _C_ SD	60.8 241.2	45.8 BLFT20050112ACT	44 04 07.0 103 15 02.0	0.250 120	1.1 1220	7.1 Western South Dakota Broad	32.7	38.5
245D Spearfish	K245BD	LIC DC_ SD	354.5 174.4	69.6 BLFT20110617ABO	44 29 33.0 103 50 05.0	0.053 132	5.6 1374	1.8 Spearfish Radio, Inc.	54.3	38.7
246C Faith	KPSD-FM	LIC _CN SD	41.3 222.4	177.0 BLED19890616KA	45 03 14.0 102 15 47.0	100.000 465	121.7 1249	81.9 South Dakota Board Of Dire	43.6	79.7
247C0 Gillette	KAML-FM	LIC _CX WY	277.4 96.3	121.6 BLH20081002ADT	43 59 57.0 105 15 15.0	100.000 335	10.8 1761	73.8 Legend Communications Of W	102.2	47.6
245C1 Terrytown	R12047	DEL ____ NE	178.7 358.7	240.8	41 42 08.0 103 41 00.0	100.000 299	180.8 1607	77.9 Appaloosa Broadcasting Com	48.8	125.2
245C1 Terrytown	KCMI	LIC _CN NE	178.7 358.7	240.8 BLH19881221KC	41 42 08.0 103 41 00.0	100.000 211	171.0 1521	71.5 Christian Media Incorporat	58.6	131.5
248C1 Chadron	KQSK	LIC _CN NE	158.9 339.3	146.9 BLH19790910AA	42 38 06.0 103 06 12.0	100.000 256	11.5 1519	79.0 Eagle Communications, Inc.	123.8	67.6
246C1 Terrytown	R12047	ADD ____ NE	178.7 358.7	240.8	41 42 08.0 103 41 00.0	100.000 299	115.6 1607	77.9 Appaloosa Broadcasting Com	114.1	146.7
244C2 Casper	KRNK	CP NCX WY	239.7 57.9	242.2 BPH20070129AJP	42 44 37.0 106 18 24.0	2.700 554	88.5 2524	59.6 Townsquare Media Casper Li	143.6	167.5
244C2 Casper	KRNK	LIC NCX WY	239.7 57.9	242.2 BMLH20060901AAS	42 44 37.0 106 18 24.0	2.850 540	88.4 2504	59.6 Townsquare Media Casper Li	143.7	167.6
243C1 Buffalo	KLGT	LIC _CX WY	288.6 106.4	261.6 BLH20110222ADX	44 34 32.0 106 52 23.0	100.000 109	10.1 1701	69.3 Legend Communications Of W	243.4	192.1
247A Wheatland	AL4211	VAC ____ WY	206.4 25.6	222.1 RM11253	42 04 28.0 104 56 51.0	6.000 100	2.9 1547	28.2 Keyhole Broadcasting Llc	208.5	221.8
243D Buffalo	KLGT-FM1	LIC _C_ WY	283.6 101.6	243.9 BLFTB20110216ACA	44 20 50.0 106 43 25.0	0.360	1.3 1541	16.4 Legend Communications Of W	233.8	227.3
243C1 Buffalo	R12805	ADD ____ WY	288.6 106.4	261.6	44 34 32.0 106 52 23.0	100.000 299	12.3 1893	83.8 Horizon Christian Fellowsh	240.9	261.4
244C2 Laramie	KIMX	LIC NCX WY	206.4 25.2	318.7 BLH20070130AIV	41 17 15.0 105 26 38.0	4.800 313	64.7 2730	43.5 Appaloosa Broadcasting Com	243.5	259.3

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= West Zone, Co to 3rd adjacent.
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 protected contour.

Translator being amended by this application.