

TECHNICAL STATEMENT
K210EC DOUGLAS, WYOMING
CEDAR COVE BROADCASTING, INC.
FCC FORM 349
JUNE 2016

This Technical Statement is made in support of a minor change application for FM translator station K210EC at Douglas, Wyoming, facility ID 155203. The new proposed operation of K210EC specifies an Effective Radiated Power of 0.04 kilowatts. It will operate with a non-directional antenna with an “off the shelf” type antenna, or a Nicom BKG77 with circular polarization. The antenna will be mounted on an existing non-registered tower with an overall height of 31 meters above the ground. The antenna will be mounted with a Center of Radiation of 20 meters above the ground, and 1658 meters Above Mean Sea Level. The coordinates of this tower are located at N 42° 51’ 29”, W 105° 14’ 03”, NAD 27. K210EC seeks to “one step” channel change to channel 264D (I.F. spaced channel).

Figure 1 is a detailed interference study conducted on channel 264D with these new proposed facilities. It shows that the new operation of K210EC will not cause any interference to any existing or proposed FM stations on any of the pertinent same channel or adjacent channels to channel 264, with the exception of 3rd adjacent channel station KKTY-FM Glendo, Wyoming operating on channel 261C1, facility ID 88501.

The proposed operation of K210EC on 264D is located within the protected 60 dBμ contour of 3rd adjacent channel of KKTY-FM. Figure 2 shows that the predicted F(50-50) field strength of KKTY-FM at the proposed K210EC transmitter site is 90.9

dB μ . Therefore, the respective predicted interfering contour F(50-10) generated by the proposed K210EC on channel 264D is an additional 40 dB μ or 130.9 dBu.

Figure 3 shows the coverage area for the 130.9 dB μ interference contour F(50-10) and shows that there is no population in the area of interference. The applicant, Cedar Cove Broadcasting, Inc., respectfully requests a waiver of C.F.R. 74.1204(d) of the Commission's rules based on the fact that there is no population within the area of predicted interference. There are no homes nearby the proposed existing tower site, which is a privately owned with private access located at a remote mountain tower site known as "Flat Top Hill". The transmitter building is uninhabited and does not have indoor plumbing. Should any unforeseen actual interference be caused, the licensee will immediately cease broadcasting with K210EC until such interference can be eliminated.

The predicted distance to the 130.0 dB μ contour is 12.6 meters. Thus, this contour will not reach the ground at any point.

Since K210EC will be located at the same transmitter site as it is currently licensed, it can be assumed that the new facilities will 60 dB μ overlap as required.

It was found that the new proposed operation of K210EC Douglas, Wyoming on channel 264D, will satisfy all of the required commission rules and regulations for an FM translator station.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY

K210EC DOUGLAS, WY, CH. 264D

REFERENCE CH# 264D - 100.7 MHz, Pwr= 0.04 kW, HAAT= 99.0 M, COR= 1658 M
 42 51 29.0 N. Average Protected F(50-50)= 8.15 km
 105 14 03.0 W. Omni-directional

DISPLAY DATES
 DATA 06-01-16
 SEARCH 06-01-16

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*
261C1 Glendo	KKTY-FM	LIC _CX WY		174.4 354.4	9.79 BLH20090424ABG	42 46 13.0 105 13 21.0	100.000 139	5.8 1677	50.8 Douglas Broadcasting, Inc.	-4.1 -41.5*	
263C1 Evansville	KTED	LIC _CX WY		263.3 82.5	89.75 BLH20080311ABW	42 45 30.0 106 19 23.0	10.000 437	95.6 2362	64.0 Breck Media Group Wyoming,	-13.3*	13.0
264C1 Gillette	KGWY	LIC _CY WY		351.1 170.8	155.83 BLH19830120AI	44 14 35.0 105 32 19.0	100.000 189	155.3 1605	58.7 Legend Communications Of W	-8.1	67.9
264C1 Cheyenne	KOLT-FM	LIC NC_ WY		171.9 352.1	202.97 BLH20080625AAB	41 02 55.0 104 53 28.0	100.000 202	161.1 2103	62.9 Citicasters Licenses, Inc.	34.0	113.4
267C0 Bridgeport	KOZY-FM	LIC _C_ NE		133.9 314.9	162.00 BLH20010827AAD	41 50 23.0 103 49 36.0	100.000 339	11.2 1630	77.7 Legacy Communications, Llc	141.6	83.7

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= West Zone, 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.

* No actual interference will be caused to third adjacent channel station KKTY-FM since the 130.9 dBu interference contour will not cover any population. See the Technical Statement for more details.

FIGURE 2 - KKTY PREDICTED 90.9 DBU CONTOUR AT SITE
K210EC DOUGLAS, WY, CH. 264D

Coverage Study - NGDC 30 SEC
06-01-2016

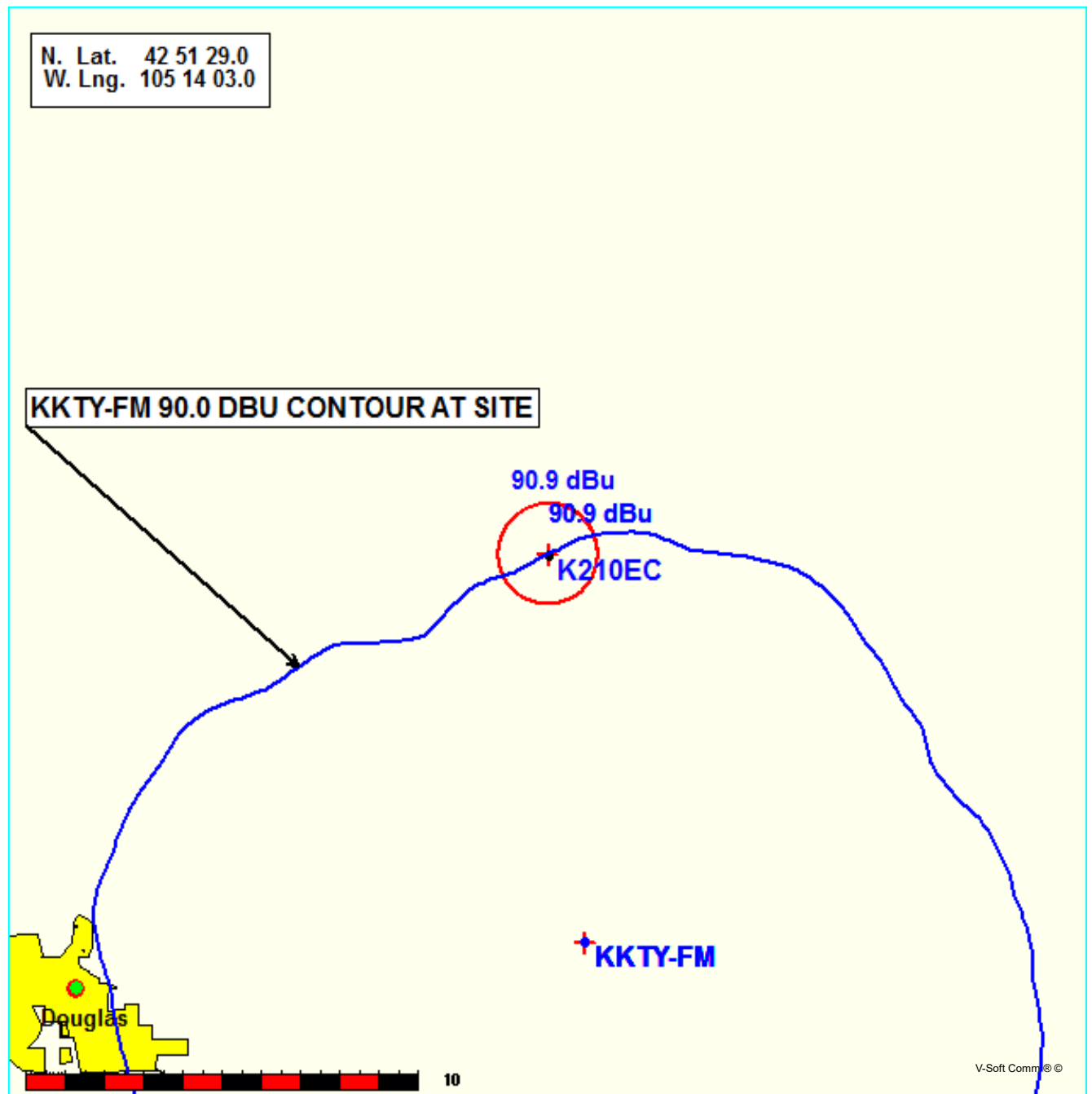


FIGURE 3 - PREDICTED 103.9 DBU INTERFERENCE CONTOUR
K210EC DOUGLAS, WY, CH. 264D

Coverage Study - NGDC 30 SEC
06-01-2016

K210EC CH264 D , 0.04 kW, 99.0m HAAT, 1658.0m COR AMSL
Interference Contour = 131 dBu. Population = 0

