

EXHIBIT 12  
TECHNICAL STATEMENT  
K245BE CHEYENNE, WYOMING 248D  
CEDAR COVE BROADCASTING, INC.  
FCC FORM 349  
JANUARY 2016

This Technical Statement is in support of a minor change application, FCC form 349, to FM translator K245BE, facility ID 148078, being filed on behalf of Cedar Cove Broadcasting, Inc.

This is a 250-mile window application and the applicant, Cedar Cove Broadcasting, Inc., has an agreement with Montgomery Broadcasting L.L.C., the licensee of KFBC(AM), to rebroadcast KFBC(AM) on K245BE. Cedar Cove Broadcasting, Inc. is proposing to change sites to ASR 1273503. The Effective Radiated Power will be 130 Watts and the antenna will be mounted at 28 meters Above Ground Level with a Center of Radiation at 1878 meters Above Mean Sea Level.

Figure 1 shows a channel interference study conducted from the proposed site for the new translator. The only pertinent records for further study are:

- 1) KXBG Cheyenne, Wyoming 250C1 License
- 2) KXBG Cheyenne, Wyoming 250C1 CP
- 3) K246CI Cheyenne, Wyoming 246D License

The proposed site is located within the protected contours of 2<sup>nd</sup> adjacent station KXBG Cheyenne, Wyoming on channel 251C1, both the licensed and CP records. The predicted F(50-50) field strength of the licensed KXBG at the proposed transmitter site is 89.0 dB , while the field strength of the CP for KXBG is 73.0 dB . The weakest of the 2 signals at the proposed site is 73.0 dB and the worst-case predicted interfering signal contour F(50-10) generated by the proposed facility to KXBG is an additional 40 dB at 113.0 dB . The maximum distance to the 113.0 dB interference contour is 178.9 meters.

Figure 2 shows an aerial view of the site with the 113.0 dB interfering contour plotted in red for an ERP of 130 Watts.

Figure 3 is a table for an ERP of 130 Watts showing the vertical clearance of the interfering contour based on the antenna relative field for various depression angles below horizontal for the antenna. The minimum vertical clearance is 6.5 meters at a distance of 21.5 meters from the base of the tower. There are no buildings around the tower where any population will be within the interference contour. Therefore, the 3<sup>rd</sup> adjacent interference contour does not reach any population and 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.

The proposed site is located within the protected contours of 2<sup>nd</sup> adjacent station K246CI Cheyenne, Wyoming on channel 246D as its transmitter is on the same tower. K246CI has an ERP of 250 Watts and the signal from the proposed operation will never exceed that signal as the proposed ERP is 130 Watts. Therefore, the 2<sup>nd</sup> adjacent interference contour does not reach any population and 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.

The distance between the proposed site and the previous licensed site for K245BE is 196 miles and meets the requirements for a 250-mile window application.

The proposed operation of K245BE on channel 248D will operate as a fill-in translator for KFBC(AM), 1240 kHz, Cheyenne, Wyoming. Figure 4 shows that the 60 dB contour of the proposed operation of K245BE is entirely within the KFBC 2 mV/m contour and within 25 miles of the KFBC transmitter site.

It was concluded that the proposed operation of K245BE Cheyenne, Wyoming on

248D will not cause any harmful interference to any existing stations and will be in full compliance with the Commission's rules. Let it be noted that should any actual real world interference occur, the applicant acknowledges that it will promptly suspend operation of this translator in accordance with 47 C.F.R. § 74.1203.