

ENGINEERING STATEMENT

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1.0 INTRODUCTION:

The Engineering Exhibit was prepared for Good News Radio, licensee of NCE-FM station KSGN, to support a minor change application to move its main transmitter to a new tower located 29 meters to the west of its licensed location.

2.0 LICENSED AND APPLICATION 60 dBu COVERAGE CONTOURS:

In addition to contour overlap considerations, the currently licensed 60 dBu contour (ERP=3.0 kW, HAAT = 91 meters) and that proposed in this application (2.75 kW, HAAT = 97.9 meters) are as closely matched as possible considering the requirements of Section 73.212(a) of the Commission's Rules.

3.0 CONTOUR-TO-CONTOUR INTERFERENCE STUDIES:

Table 1 shows the contour-to-contour study for KSGN's currently licensed operation with respect to all relevant co-channel and adjacent channels, and TV Channel 6 stations, construction permits, and pending applications. Table 2 shows the contour-to-contour study for this application with respect to all relevant co-channel and adjacent channels, TV Channel 6 stations, construction permits, and pending applications. Comparing Table 1 to Table 2, it can be seen that there is no increase in any existing contour overlap, and no new contour overlap has been created. Tables 1A and 2A contain only the data for KCRW and the proposed Twentynine Palms station, which are the most significant stations for consideration in this application

3.1 Overlap with first adjacent channel (210B) KCRW, Santa Monica:

Table 1A shows the licensed KSGN 54 dBu interference contour overlap with the KCRW 60 dBu protected contour to be 19.7 km. Table 2A shows that this overlap is reduced by this application to 19.3 km, a decrease in the overlap of 0.4 km. Similarly, the licensed KSGN 60 dBu protected contour overlap with the KCRW 54 dBu interference contour is 20.2 km, and with this application the contour overlap has been reduced to 19.7 km, a decrease in the existing overlap of 0.5 km.

3.2 Overlap with proposed co-channel (209B1) Twentynine Palms:

Tables 1A and 2A show that there is no interference contour overlap of the proposed Twentynine Palms co-channel station with the KSGN 60 dBu protected contour either for currently licensed KSGN, or for what is being proposed in this application. Figure 1 also shows no contour overlap.

With respect to the overlap of the KSGN interference contour to the Twentynine Palms protected contour, there is currently an existing overlap of 0.2 km. With this application there will be no change in the already existing overlap. Figures 2 and 2A show the slight (0.2 km) overlap for both the current KSGN licensed conditions and this application.

The intervening San Bernardino mountains between KSGN and Twentynine Palms would make it unlikely that either station would interfere with each other. Figure 3 is a terrain profile graph between KSGN and Twentynine Palms. Not shown on this profile graph is the maximum elevation along the path of 2,500 meters.

4.0 SUMMARY:

The above shows that where existing contour overlap exists, that overlap has remained unchanged or has been reduced by the operating parameters proposed in this application.