

Comprehensive Engineering Exhibit
KHKZ(FM) Facility ID 36166
Minor Change Application
October 27, 2011

By this application it is sought to modify the facility of KHKZ(FM) as a “coordinate correction” greater than 3 seconds. This is made necessary as the result of a recent land survey of the tower location. The antenna structure registration is being updated concurrently by the tower owner.

The KHKZ(FM) antenna is directional, located 198 meters above ground level upon a tower described by antenna structure registration number 1053093. From this location KHKZ(FM) is fully spaced as a Class C3 facility in accordance with Section 73.207 to all known domestic facilities, applications and allocations with the exception of KBIC and KPSO-FM for which use of Section 73.215 has demonstrated, see contour map below.

The corrected facility is at a Height Above Average Terrain (HAAT) of 194 meters. This is 94 meters greater than maximum for Class C3, the web tool “FMpower” was utilized to determine the equivalent maximum power of 6.6 kW for this height.

The Channel 292 allocation at Mercedes, Texas has been accepted by Mexico as a Class B “restricted allotment capable of operating at maximum parameters”, thus this proposal for domestic class C3, international Class B1, is compliant with the existing international agreement.

The facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, “Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation.”

The proposed antenna system is an EPA type 3, 3- bay, 1.0 wave spaced “Roto Tiller” style antenna, mounted with its center of radiation 193 meters above ground level. This proposal will operate with an effective radiated power of 6.6 kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 96 meters from the base of the tower, this proposal will contribute worst case 1.27 microwatts per square centimeter, or 0.13 percent of the allowable ANSI limit for controlled exposure, and 0.65 percent of the allowable limit for uncontrolled exposure. This figure is less than 5% of the applicable FCC exposure limit at all locations extending out from the base of the tower. Section 1.1307(b)(3) excludes applications when the calculated level is predicted to be less than 5% of the applicable exposure limit. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

73.215 Contour Map

