

Minor Change Application
KBCO FID 48966
March 20, 2008

This application seeks a change of directional antenna, mounting height and effective radiated vertical polarity power of station KBCO, no actual change in location is requested, however, a “correction of coordinates” to match the underlying antenna structure registration is part of this application.

KBCO is a fully spaced station in accordance with Section 73.207; the station operates with a directional antenna only to comply with Section 73.1030 with regards to the Table Mountain Radio Receiving Zone (TMRRZ), Bolder County, Colorado. This proposed directional antenna is not required for protection of any short spaced stations, and does not comply with Section 73.316(b). Attached is a map demonstrating that the 80 dBu contour falls well short of TMRRZ.

This station is now and should continue to be fully spaced in accordance with Section 73.207. A correction of coordinates of 1 second of west Longitude from the value of 32 to 33 is requested as part of this application. This correction does not create new short spacings, or make any existing ones worse. A decrease in mounting height of 4 meters is made in this application, also requested is an increase in vertical polarity effective radiated power to the allowed class maximum 100,000 watts.

The proposed 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, 8-bay, half wave spaced, “Roto-tiller” antenna, mounted with its center of radiation 43 meters above ground level, and will operate with an effective radiated power of 100 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 328 meters from the base of the tower, this proposal will contribute worst case, 26 microwatts per square centimeter, or 2.6 percent of the allowable ANSI limit for controlled exposure, and 13 percent of the allowable limit for uncontrolled exposure. 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 site itself is restricted from public access. 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.

Map of TMRRZ and 80 dBu contour.

