

**Comprehensive Engineering Exhibit
Clear Channel Broadcasting Licenses Inc.
KYSM-FM, Channel 278C1, Mankato, Minnesota**

Clear Channel Broadcasting Licenses, Inc. seeks a construction permit for a contingent minor change in the facility of KYSM-FM, Channel 278C1, Mankato, Minnesota. Specifically, this application seeks only to bring the station under Section 73.215 contour protection utilizing presently licensed and constructed facilities.

There will be no construction or modification to the presently licensed KYSM-FM facilities. The only change requested is the use of section 73.215 contour protection.

This location is fully spaced utilizing Section 73.207 to all known stations, allocations and applications with the exception of a contemporaneously filed contingent minor change application by co-owned KLKK(FM), Channel 279C3, Clear Lake, Iowa, to which Section 73.215 spacing is requested. By that separate contingent application for minor change, Clear Channel Broadcasting Licenses, Inc. is seeking to re-locate and authorize KLKK(FM) utilizing Section 73.215 contour protection with respect to this application for KYSM-FM. Attached is a contour map demonstrating no overlap. It is requested that this application and the KLKK(FM) application be treated as contingent applications pursuant to Section 73.3517(e). No agreement is necessary as both KYSM-FM and KLKK(FM) are under common ownership.

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 existing antenna system is an EPA type 3, 6- bay, roto-tiller style antenna, mounted with its center of radiation 147 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, the height of an average person, at the base of the tower, this proposal contributes worst case, 9.27 microwatts per square centimeter, or 0.927 percent of the allowable ANSI limit for controlled exposure, and 4.63 percent of the allowable limit for uncontrolled exposure. It is therefore believed that this system is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will ensure 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.

Figure 02 - Contours

