

Comprehensive Engineering Exhibit
Clear Channel Broadcast Licenses, Inc.
Minor Change in Licensed Facility
KEFM (FM) FID#: 71411
Omaha, Nebraska

Clear Channel Broadcast Licenses, Inc. seeks to modify KEFM. It is proposed that KEFM share the same antenna that station KGOR will utilize in construction permit BPH-20021223ABG, for which an application for license to cover will soon be filed.

As this antenna location will provide for a height above average terrain (HAAT) of only 370 meters, this application specifies class C0. From the proposed location upon antenna structure registration number 1025131, KEFM will be fully spaced Section 73.207 to all stations, applications and allocations with the exception of co-channel class "A" station KNWM Madrid, Iowa. Contour protection utilizing Section 73.215 is requested to KNWM. To prevent contour overlap it is proposed to operate KEFM with a reduced effective radiated power in the horizontal plane of 75 kW. This 25 kW reduction from class maximum will provide protection to the class maximum contour of KNWM. Figure 1 below represents the protected and interfering contours of KEFM and KNWM as proposed.

The antenna exhibits -0.75 degree beam tilt with 10% null fill. A copy of the vertical elevation pattern from the manufacturer is part of this engineering exhibit. The station will radiate 78 kW maximum with the beam tilt antenna, and 75 kW in the horizontal plane.

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 a shared antenna with KGOR (FID# 26928) and is a EPA type 3, 8- bay, full-wave spaced, "Rototiller " antenna, mounted with its center of radiation 347 meters above ground level, with a total effective radiated power of 193 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 94 meters from the base of the tower, this proposal will contribute worst case 6.24 microwatts per square centimeter, or 0.624 percent of the allowable ANSI limit for controlled exposure, and 3.12 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.

Figure 01 -

