

KTCL(FM), Wheat Ridge, Colorado
Facility ID No: 68684
Jacor Broadcasting of Colorado, Inc.
Comprehensive Engineering Exhibit
February 14, 2008

This application is for a construction permit for an auxiliary facility for KTCL(FM), Wheat Ridge, Colorado. The tower is described by Antenna Structure Registration Number 1034537. The antenna COR is 232 meters above ground level.

Proposed Facilities

The proposed antenna is an EPA type 3, 4-section, circularly polarized, full wave spaced, directional antenna, side mounted on the existing structure of ASR 1034537 at a center elevation of 232 meters above ground level, and will operate with an effective radiated power of 24.5 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, 2.7 microwatts per square centimeter, or 0.27 percent of the allowable ANSI limit for controlled exposure, and 1.35 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 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 1

