

**Comprehensive Engineering Exhibit  
Minor Change Application  
KPAW Fort Collins, CO**

By this minor change application KPAW Fort Collins, Colorado seeks only to change its antenna from directional to non-directional. No change in location, elevation, power, frequency, or community is requested in this application.

This existing KPAW facility is located 116 meters above ground level on a tower identified by registration number 1058302. From this location KPAW is fully spaced to all facilities, authorizations, and allocations except; KRVK<sup>1</sup> Vista West, Wyoming; KDZA-FM Pueblo, Colorado; and an application by KPAD Wheatland, Wyoming, all with which processing via 73.215 is requested. . Attached is a map demonstrating that operation from the present height, location and power utilizing a non-directional antenna will not cause any prohibited contour overlap. This tower is shared with co-owned station KQMY, which is mounted at the 143 meter level.

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 new non-directional KPAW antenna system is to be a Dielectric DCRM, 8- bay, full wave spaced antenna mounted with its center of radiation 116 meters above ground level, and will operate with an effective radiated power of 100 Kilowatts in both the horizontal and vertical planes. Station KQMY operates from a higher location on the same tower with 100 Kilowatts of power. There are no known non-exempt radiators presently operating within 1,000 meters of this tower.

For simplicity of analysis it has been assumed that all radiated power (200 kW) radiates from the antenna mounted closest to ground level (KPAW). The micro-computer program FM Model was used to determine that at 2 meters above ground, at 39 meters from the base of the tower, this proposal will contribute a combined worst case, 85.6 microwatts per square centimeter, or 8.56 percent of the allowable ANSI limit for controlled exposure, and 42.8 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.

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<sup>1</sup> KRVK has initiated operations at Vista West by the filing of license application BLH-20071101ABV

# 73.215 Map

