

ENVIRONMENTAL STATEMENT
K202CV BRECKENRIDGE, COLORADO, CH. 201D
COMMUNITY RADIO FOR NORTHERN COLORADO
FCC FORM 349
DECEMBER 2011

The applicant proposes mounting an antenna on an existing 16.2 meter un-registered tower. The proposed Center of Radiation will be 16 meters Above Ground Level. A single bay Nicom BKG-77 is proposed with 65 watts ERP. Calculations were made using FM Model for Windows, version 2.10. The proposed antenna Center of Radiation, above ground, was reduced by 2 meters to allow for the average height of a human on the ground. FM Model predicts a peak exposure of $13.33 \mu\text{w}/\text{cm}^2$ at a distance of 4 meters from the base of the tower. This represents 6.7 % of the allowable Maximum Permissible Exposure (“MPE”) of $200 \mu\text{w}/\text{cm}^2$ for uncontrolled environments at any point on the ground. Since the Nicom antenna is not specifically listed in the FM Model program, the worse case “Type 1” antenna was used for the study.

The site is also utilized by KKVM-FM3 Dillon, Colorado (facility ID 65587) and K264AG Dillon, Colorado (facility ID 86122). Commission records indicate that KKVM-FM3 generates a worse case power density of $14.38 \mu\text{w}/\text{cm}^2$ at 12 meters. K264AG generates a worse case power density of $20.99 \mu\text{w}^2$ at 12 meters. The worse case power of all three facilities would produce a power density of $48.7 \mu\text{w}^2$ when directly added together. This is still well below the $200 \mu\text{w}^2$ limit.

The applicant will ensure that the public access to the tower is restricted by fencing, anti-climb devices or other appropriate measures. The site will be posted with RF warning signs. If climbing of the tower by authorized personnel becomes

necessary, transmitter power will be reduced to safe operating levels, or transmission even terminated, as necessary as not to exceed the RF exposure limits to tower workers. The licensee will cooperate with other users at the site with the scheduling of such tower or antenna maintenance.

No modification of the existing tower is proposed, other than the proposed side mounting of the antenna system and addition of a transmission line. The tower was constructed prior to March 16, 2001. The National Programmatic Agreement generally allows such a collocation without consultation or review under Section 106 and Subpart B of 36 CFR §800. The applicant believes that it is in full compliance with the Agreement, and that no further study is required.