

ENVIRONMENTAL STATEMENT
K276FK PINECLIFFE, COLORADO
MOUNTAIN COMMUNITY TRANSLATORS, LLC
FCC FORM 349
AUGUST 2010

The applicant proposes mounting a new antenna on an existing 13 meter un-registered tower. The proposed Center of Radiation will be 9 meters Above Ground Level. A 2 bay, with half (0.5) wavelength spacing, circular polarized, Nicom model BKG-77/2L, directional type antenna is proposed, with a maximum Effective Radiated Power of 250 watts. 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 $40.1537 \mu\text{w}/\text{cm}^2$ at a distance of 12 meters from the base of the tower. This represents 20.1% of the allowable Maximum Permissible Exposure (“MPE”) of $200 \mu\text{w}/\text{cm}^2$ for uncontrolled environments at any point on the ground.

This tower is also utilized by K219LF Idaho Springs, Colorado, facility ID 158527. It operates with only 26 watts ERP, circular polarized. While this translator operates with less than 100 watts ERP, and is categorically excluded from environmental processing, the worse case peak exposure generated by K219LF would be $10.3760 \mu\text{w}/\text{cm}^2$ at 4 Meters on the ground. Even if directly added with the proposed K276FK, this would generate at peak exposure of $50.5297 \mu\text{w}/\text{cm}^2$ at any point on the ground, or still well below the MPE of $200 \mu\text{w}/\text{cm}^2$ for uncontrolled areas.

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.