

ENVIRONMENTAL STATEMENT
K280EQ COLORADO SPRINGS, CO, CH 284D
CEDAR COVE BROADCASTING, INC.
FCC FORM 349
OCTOBER 2016

The applicant proposes mounting a new antenna on an existing 98 meter registered tower, ASR # 1025253. The proposed Center of Radiation will be 75 meters Above Ground Level. A single yagi, circular polarization, Scala CA-2-CP directional antenna system with 0.025 KW ERP (25 watts) is proposed. 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 $0.19 \mu\text{w}/\text{cm}^2$ at a distance of 20 meters from the base of the tower. This represents 0.1 % of the allowable Maximum Permissible Exposure ("MPE") of $200 \mu\text{w}/\text{cm}^2$ for uncontrolled environments at any point on the ground. Since the Scala antenna is not specifically listed in the FM Model program, the worse case "Type 1" antenna was used for the study. Since the ERP is only 25 watts, this proposal should be categorically excluded from further environmental processing.

This site is also utilized by two non-directional AM stations, KQSC(AM) Colorado Springs, CO, facility ID 33731, and KCBR Monument, CO, facility ID 10846. An isocoupler will be used at the base of the tower with the proposed addition of the FM antenna and transmission line. Measurement of the tower base impedance for both AM's will be made before and after the installation of the FM installation.

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.