

ENVIRONMENTAL STATEMENT
K280EQ COLORADO SPRINGS, CO, CH 282D
CEDAR COVE BROADCASTING, INC.
FCC FORM 349
APRIL 2017

The applicant proposes mounting a new antenna on an existing 9 meter non-registered tower. The proposed Center of Radiation will be 9 meters Above Ground Level. A single yagi with vertical only polarization, Scala Log-V, directional antenna system with 0.095 KW ERP (95 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 $61.43 \mu\text{w}/\text{cm}^2$ at a distance of 2 meters from the base of the tower. This represents 30.7 % 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 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 95 watts, this proposal should be categorically excluded from further environmental processing.

This site is being proposed to be utilized by other FM translators. But each translator will have its own 9 meter (29 feet) separate mounting pole with horizontal spacing between the poles.

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.