

ENVIRONMENTAL STATEMENT
K202EG ESTES PARK, COLORADO, CH. 205D
CEDAR COVE BROADCASTING, INC.
FCC FORM 349
MARCH 2012

The applicant proposes mounting an antenna on an existing 31 meter un-registered tower. The proposed Center of Radiation will be 10 meters Above Ground Level. A single one bay, circular polarization, Nicom Model BKG77/L, directional antenna is proposed with 13 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 $8.15 \mu\text{w}/\text{cm}^2$ at a distance of 10 meters from the base of the tower. This represents 4.1 % 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.

KRKY-FM Estes Park, Colorado also operates from this same tower site. From their original application to utilize this site, they show a maximum power density of $74.61 \mu\text{W}/\text{cm}^2$ at 9.6 meters from the base of the tower. Thus, even if the proposed power density and this power density were directly added, worse case this would produce a maximum power density of $82.76 \mu\text{W}/\text{cm}^2$ at any point on the ground, which is still well below the maximum allowed in un-controlled areas.

The proposed facility will be co-located with FM translator stations K258BE licensed to Estes Park. K258BE operates with less than 100 watts ERP (13 watts), thus

should be categorically excluded from being considered in RF exposure calculations for this application, see section 1.1307(b)(1).

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.