

ENVIRONMENTAL STATEMENT
K231BQ GOLDEN, COLORADO, CH. 231D
MARCO BROADCASTING CORPORATION
FCC FORM 349
JUNE 2015

The applicant proposes mounting a new antenna on an existing 18 meter un-registered tower. The proposed Center of Radiation will be 8 meters Above Ground Level. The ERP will be 250 watts circular polarization. A Scala CA-2-CP composite directional antenna 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 $127.6 \mu\text{w}/\text{cm}^2$ at a distance of 6 meters from the base of the tower. This represents 63.8% 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 this is a multiple user site, to ensure compliance, the licensee will make power density measurements around the base of the tower before full-time broadcasting is commenced to make sure the density level are under the $200 \mu\text{w}/\text{cm}^2$ at any point near the ground.

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.