

ENVIRONMENTAL COMPLIANCE
K295CB DES MOINES, IOWA 231D
YOUNGERS COLORADO BROADCASTING LLC
FCC FORM 349
JANUARY 2021

The facility proposes to utilize a Nicom, circularly polarized, directional antenna system with an Effective Radiated Power of 0.132 kW. The proposed Center of Radiation will be 112 meters Above Ground Level.

Calculations were made using FM Model for Windows, version 2.10. FM Model assuming a worst case of a single dipole. The model predicts a peak exposure of $0.439 \mu\text{W}/\text{cm}^2$ at a distance of 30 meters from the base of the tower. This represents less than 0.22%, much less than 5%, of the allowable Maximum Permissible Exposure ("MPE") of $200 \mu\text{W}/\text{cm}^2$ for uncontrolled environments at any point on the ground. The applicant will ensure that the public access to the tower is restricted by fencing, anti-climb devices or other appropriate measures. If climbing of the tower by authorized personnel becomes necessary, transmitter power will be reduced to safe operating levels or transmission will be terminated, if 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.

The site is an existing tower site. 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.