

ENVIRONMENTAL STATEMENT
K241BZ KIHEI, HAWAII
KONA COAST RADIO, LLC
FCC FORM 349
FEBRUARY 2015

The applicant proposes mounting a new antenna on an existing 21.3 meter un-registered tower. The proposed Center of Radiation will be 21 meters Above Ground Level. A 2 bay, vertical and horizontal polarized Nicom model BKY-3, directional antenna is proposed, with a maximum Effective Radiated Power of 250 watts. 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 27.77 $\mu\text{w}/\text{cm}^2$ at a distance of 6 meters from the base of the tower. This represents 13.9 % of the allowable Maximum Permissible Exposure ("MPE") of 200 $\mu\text{w}/\text{cm}^2$ for uncontrolled environments at any point on the ground.

This site is also utilized by KQMY(FM) Kihei, Hawaii, facility ID 189544. From FCC records its worse case power density is 105.2 $\mu\text{w}/\text{cm}^2$ at 0 meters from the tower base. Even if directly added the tower power density would be 132.97 $\mu\text{w}/\text{cm}^2$.

The applicant will ensure that the public access to the tower is restricted by fencing, anti-climb devices or other appropriate measures. The site is 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.