

Environmental Effects

Educational Media Foundation (“EMF”) certifies that K296GB complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

The RF worksheet in the Instructions to form 303-S was unusable to determine compliance for this facility because the facility is co-located with other AM and FM broadcast facilities. Therefore, EMF used RFHAZ, a commercial software package created by V-Soft Communications, to determine compliance for this site.

Co-located AM station KLIB Roseville, CA operates on 1110kHz at 5.0 kW maximum power via an array of towers that are 270.27° (0.25λ) in height. The protective fences installed around each tower are located farther from the tower than the two meter distance required by Table 3 of OET-65, Supplement A.

Utilizing the Rototiller EPA Type 2 antenna for calculations, K296GB’s maximum contribution to the site is $0.337\mu\text{W}/\text{cm}^2$, which is 0.168% of the worst-case uncontrolled (public) exposure limit of $200\mu\text{W}/\text{cm}^2$.

This value does not exceed the 5% “threshold of responsibility” specified in 47 C.F.R. 1.1307(b) and 1.1307(b) (3). Therefore, K296GB is “categorically excluded” from providing an Environmental Assessment.

Based on this evaluation, K296GB is categorically excluded and co-located KLIB is adequately fenced. Therefore, K296GB fully complies with the FCC’s maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.