

Environmental Effects

Educational Media Foundation (“EMF”) certifies that K228FI 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 KWML Las Cruces, NM operates on 570kHz at 5.0 kW maximum power via a single tower that is 90.1° (0.25λ) in height. The protective fence installed around the tower is located farther from the tower than the two meter distance required by Table 3 of OET-65, Supplement A.

Utilizing the “Double V” EPA – Type 2 antenna for calculations, K228FI’s maximum contribution to the site is $0.33\mu\text{W}/\text{cm}^2$, which is 0.0165% 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, K228FI is “categorically excluded” from providing an Environmental Assessment.

Based on this evaluation, K228FI is “categorically excluded” from providing an Environmental Assessment and co-located KWML is adequately fenced. Therefore, K228FI fully complies with the FCC’s maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.