

Environmental Effects

Educational Media Foundation (“EMF”) certifies that W284CR 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 of the “worst-case” nature of the worksheet. Therefore, EMF used RFHAZ, a commercial software package created by V-Soft Communications, to determine compliance for this site.

The facility is located on a building rooftop communications site and is shared with other FM broadcast facilities. In relation to the nearest occupied floor at a distance of 13m below the center of radiation, using a worst-case “ring-stub” type 1 antenna for calculations, W284CR’s maximum contribution to the site is $6.49\mu\text{W}/\text{cm}^2$, which is less than 3.3% of the worst-case uncontrolled (public) exposure limit of $200\mu\text{W}/\text{cm}^2$.

This value falls below the 5% “threshold of responsibility” specified in 47 C.F.R. 1.1307(b) and 1.1307(b) (3). Therefore, W284CR is “categorically excluded” from providing an Environmental Assessment.

In addition to the calculations, RF Measurements were taken on the rooftop itself which is a controlled environment. These measurements were recorded with all FM facilities operating at 100% licensed ERP. All measurement points were found to be below the uncontrolled limits of OET-65. Therefore, the W284CR facility fully complies with the FCC maximum permissible electromagnetic exposure limits for controlled and uncontrolled environments.