

Environmental Effects

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

WCAD sustained major damage to its broadcast antenna and tower in September 2017 due to Hurricane Maria. As a result, WCAD has not operated on the previously licensed antenna since that time. Plans are underway to install a new antenna as specified in construction permit File Number BPED-20180809AAX. However, as of this license renewal date, WCAD is operating under STA (File Number BSTA-20190109AAF) with an ERP of 1.04kw. The RF Study for this license renewal reflects the current WCAD parameters. Upon restoring WCAD to its previously licensed power level, EMF will abide by Special Operating Condition Number Two as specified in construction permit BPED-20180809AAX as required to maintain compliance with the radiofrequency electromagnetic field exposure guidelines.

The RF worksheet in the Instructions to form 303-S was unusable to determine compliance for this facility because the facility is shared with television broadcast facilities. Therefore, EMF used the Vertical Elevation Pattern from the antenna manufacturer to determine compliance for this site.

Considering the single bay Nicom BKG77 antenna at an elevation of 30 meters above ground for calculations, WCAD’s maximum contribution to the site is $9.83\mu\text{W}/\text{cm}^2$, which is 4.9% 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, WCAD is “categorically excluded” from providing an Environmental Assessment.