

Environmental Effects

Educational Media Foundation (“EMF”) certifies that WAKC 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 site is shared with other FM broadcast facilities. These were each evaluated using the RFHAZ software. The results are as follows:

Call	Channel	COR AGL	ERP	EPA Antenna used	Max Pub (uW/cm ²)	Max	% of Max Pub
WAKC	272	25	3	Dielectric DCR Type 7	200	30.5	15.25
WEVO	206	55	50	Shively 6800 Type 6 *	200	66.07	33.035
WEVO-Aux	206	27	15	Shively 6800 Type 6 *	200	129.52	64.76
WCNH	213	41	.53	Shively 6800 Type 6 *	200	4.49	2.25
Totals **				Considering WEVO-Aux		164.51	82.255
Totals				Considering WEVO Main		101.06	50.53

* Per the FCC database. Since the antennas are mounted on different tower structures at different elevations and have a different number of bays, the maximum RF levels will not fall at the same distance from the tower. However, in the interest of simplicity, the maximum values were simply added. Since the site complies using this over-simplified math, no more detailed evaluation was performed.

** The WEVO Main and Aux would not be operating simultaneously. The site complies with either the Main or Aux in operation.

Based on this evaluation, the WAKC site is currently approximately 50% of the public (uncontrolled) exposure limits, and, when WEVO is operating on the Aux antenna, approximately 82% of the public (uncontrolled) exposure limits. Therefore, the site fully complies with the FCC’s maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.