

Environmental Effects

Educational Media Foundation (“EMF”) certifies that WKJL 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 several broadcast facilities. These were each evaluated using the RFHAZ software. The results are as follows:

Call	Channel	COR AGL	ERP Kw	EPA Antenna used	Max Pub (uW/cm ²)	Max	% of Max Pub
WKJL	201	84	19h + 32v	EPA Type 1	200	163.05	81.5
WVIW	281	93	2.45	“Rototiller” *	200	2.72	1.36
Totals						165.77	82.86

* Per the FCC database, WVIW uses an ERI LPX-2E antenna. Since the antennas are mounted 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.

Based on this evaluation, the site is better than 82.86% of the public (uncontrolled) exposure limits, and therefore fully complies with the FCC’s maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.