

Environmental Effects

Educational Media Foundation (“EMF”) certifies that K299AG 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
K299AG	299	12	.05kw H+V	“Ring Stub” EPA Type 1*	200	13.94	6.97
K215FF	215	14	.05kw H+V	“Double V” EPA Type 2**	200	4.69	2.345
KAWR	254	20	.25kw H+R	Shively 6800 series Type 6**	200	3.9	1.95
KLWR	270	20	.5kw H+R	Shively 6800 series Type 6**	200	7.8	3.9
Totals						30.33	15.165

* In the interest of simplicity, this is the appropriate worst case antenna.. Since the site complies using the worst case value, no more detailed evaluation was performed.

* Per the FCC database antenna model. 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 currently approximately 15% 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.