

Environmental Effects

Educational Media Foundation (“EMF”) certifies that K300AE 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 on adjacent structures. For simplicity, the individual structures were treated as a single tower. Each facility was 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
K300AE	300	9 (2)†	.01	Dipole/Ring Stub*	200	47.61	23.8
K202CV	202	4 (8)	0.04	Dipole/Ring Stub*	200	12.09	6.0
K207CK	207	5 (15)	0.249	Dipole/Ring Stub*	200	11.65	5.8
K209ED	209	8 (12)	0.009	Dipole/Ring Stub*	200	0.66	0.3
K232AC	232	7 (12)	0.048	Dipole/Ring Stub*	200	3.08	1.5
Totals						75.09	37.4

* In the interest of simplicity, these are appropriate worst case antennas. Since the site complies using these worst case values, no more detailed evaluation was performed.

** As part of its investigation into the RF at this site, EMF discovered that the elevations above ground of the various antennas do not appear to match those contained within the FCC database. For the purposes of this study, the facilities were calculated based on their actual height above ground as provided by the site manager. These values are shown in parenthesis in the COR AGL column above.

† EMF also learned that the antenna for K300AE was temporarily lowered to 2m AGL during tower work, but due to weather, the landlord has been unable to restore the antenna to 9m AGL as specified in EMF's license. EMF has already requested, and will actively work with the site manager to restore its antenna to the correct elevation as soon as weather permits.

Based on this evaluation, the site is better than 37.4% 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.