

Environmental Effects

Educational Media Foundation (“EMF”) certifies that K220BM 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 the facility is shared with several television broadcast facilities. Therefore, EMF used RFHAZ, a commercial software package created by V-Soft Communications, to determine compliance for this site.

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
K220BM	220	13.5	0.008	Dipole/Ring Stub*	200	0.40	0.2
K06IX	6	5	0.082	100% field at -90° *	200	67.94	34.0
K10DY	10	-36	0.009	100% field at -90° *	200	7.46	3.7
K12EE	12	8	0.009	100% field at -90° *	200	2.91	1.5
Totals						78.71	39.4

* 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.

** There appear to be coordinate/elevation discrepancies among the sites. These COR AGL values are the worst-case (lowest) of the data in CDBS or as determined by subtracting the ground elevation obtained from 7.5 minute topographic maps from the COR AMSL as contained in CDBS or from an assumption that the facility must be located at the highest point in the area (determined from topographic maps). Note that K10DY was calculated with a COR AGL of 5 meters.

Based on this evaluation, the site is better than 39.4% 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.