

Environmental Effects

Educational Media Foundation (“EMF”) certifies that K219AW 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 there are several television broadcast facilities in the area. Therefore, EMF used RFHAZ, a commercial software package created by V-Soft Communications, to determine compliance for this site.

According to CDBS, the site is shared with several broadcast facilities on several towers. The individual towers were treated as a single tower for the sake of simplicity. 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
K219AW	219	12	0.008	Dipole/Ring Stub*	200	0.51	0.3
“New” CP	203A	8	0.3	Dipole/Ring Stub*	200	126.85	63.4
K216BP	216	≈21	0.021	Dipole/Ring Stub*	200	0.44	0.2
K291AK	291	14	0.041	Dipole/Ring Stub*	200	6.66	3.3
K295AW	295	12	0.05	Dipole/Ring Stub*	200	11.05	5.5
K06JJ	6	≈52	0.011	100% field at -90° *	200	0.08	0.0
K09FE	9	≈52	0.011	100% field at -90° *	200	0.08	0.0
K12LT	12	≈61	0.011	100% field at -90° *	200	0.06	0
K46DO	46	≈43	1.06	100% field at -90° *	443.34	11.88	2.7
K64BH	64	≈55	1.26	1% field at -90°	515.34	0.00	0.0
Totals						157.61	75.4

* 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, most notably those with ≈ COR values. Accordingly, all of these values assume that the ground elevation is equivalent to the top of the mountain (2268.9m per the 7.5 minute topographic map) which gives a worst case value for the given COR AMSL.

Based on this evaluation, the site is better than 75.4% 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.