

Environmental Effects

Educational Media Foundation (“EMF”) certifies that K210CE 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.

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
K210CE	210	14	0.01	Dipole/Ring Stub*	200	1.62	0.8
K205CK	205	12	0.01	Dipole/Ring Stub*	200	2.79	1.4
K214CA	214	6	0.01	Dipole/Ring Stub*	200	8.72	4.4
K219DH	219	11	0.01	Dipole/Ring Stub*	200	2.63	1.3
K256AD	256	25	0.01	Dipole/Ring Stub*	200	0.59	0.3
KGJT-LP	27	26	19.4	4% field at -90°	367.34	0.95	0.3
KGJT-LP CP	27	26	47	1% field at -90°	367.34	0.14	0.0†
K39AF	39	25	1.22	100% field at -90°	415.34	40.43	9.7
K41AE	41	23	1.22	100% field at -90°	423.34	47.77	11.3
K43AB	43	23	1.22	100% field at -90°	431.34	47.77	11.1
K69AO	69	2821 AMSL?	4.47	5% field at -90°	535.34	57.87	10.8
Totals						211.14	51.4

* 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 K69AO was calculated with a COR AGL of 2 meters, based on a worst case interpretation of a photograph of the site.

† Only the channel 27 license for KGJT-LP was included in the totals since it is the worst case.

Based on this evaluation, the site is better than 51.4% 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.