

Environmental Effects

Educational Media Foundation (“EMF”) certifies that K243AM 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 other broadcast facilities. Therefore, EMF used the Vertical Elevation Patterns from the antenna manufacturers to determine compliance for this site.

The site is shared with other FM broadcast facilities and one un-built broadcast Construction Permit. These were each evaluated with the results as follows:

Call	Channel	COR AGL	ERP	VEP Antenna Data Used	Max Pub (uW/cm ²)	Max	% of Max Pub
K243AM	243	9	.25kw H+V	Scala CA2-CP	200	23.58	11.79
K228EM	228	9	.25kw H+V	Shively 6812	200	27.60	13.8
K279BQ	279	9	.25kw H+V	Nicom BKG77	200	22.02	11.01
K286CO*	286	8	.099kw H+V	Scala CA2-CP	200	13.80	6.9
K276GG	276	9	.25kw H+V	Scala CA2-CP	200	23.58	11.79
K294DB	294	8	.023kw H+V	Scala CA2-CP	200	3.20	1.6
K239CH*	239	8	.099kw H+V	Scala CA2-CP	200	13.80	6.9
Total					200	127.58	63.79

*Construction permits which have not been constructed as of filing but are included in this worst case study. Since the site complies even when including these values, no more detailed evaluation was performed.

Since each of these antennas are mounted on separate structures with horizontal distances between them, the maximum RF levels will not fall at the same location. 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 64% of the public (uncontrolled) exposure limits, therefore fully complies with the FCC’s maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.