Radiofrequency Electromagnetic Exposure Analysis for WVGG

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	Power Density $\mu W/cm^2$ at 2 meters AGL: at 10 meters distance	% controlled environment limit (1000 $\mu W/cm^2$)	Max. PD	% uncontrolled environment limit (200 $\mu W/cm^2$)	Distance to maximum PD (m)	
WVGC	**250**	**SHI 6810-2**	**2**	**3.00**	**3.00**	**0.03**	**0.003%**	**0.4**	**0.22%**	**164**	**(proposed)**
WHZT	**265**	**ERI SHPX**	**7**	**100.00**	**100.00**	**3.00**	**0.300%**	**6.1**	**3.05%**	**76.8**	
W231BX	**250**	**Dipole (EPA)**	**1**	**0.25**	**0.25**	**0.14**	**0.014%**	**0.2**	**0.09%**	**66.6**	
W236CD(CP)	**105**	**Dipole (EPA)**	**1**	**0.01**	**0.01**	**0.04**	**0.004%**	**0.04**	**0.02%**	**27.6**	
						3.20	**0.320%**	6.7	**0.22%**	164	

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

Calculations made using FCC FM Model v2.10 Beta
In the absence of specific antenna data, the "Dipole (EPA)" parameter is selected to be the "worst case" scenario.