

Radiofrequency Electromagnetic Exposure Analysis

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	Power Density $\mu\text{W}/\text{cm}^2$ at 2 meters AGL				
						within 10 meters distance	% controlled environment limit (1000 $\mu\text{W}/\text{cm}^2$)	Max. PD beyond 10 m	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$)	Distance to maximum PD (m)
W251AY (CP MOD)	14	(Dipole EPA assumed)	1	0.250	0.250	69.8	6.98%	55.0	27.5%	3.2
W255BM	14	(Dipole EPA assumed)	1	0.100	0.100	27.9	2.79%	23.0	11.5%	3.2
W221CO (PROPOSED)	13	(Dipole EPA assumed)	1	0.120	0.120	39.9	3.99%	29.0	14.5%	2.9
						69.8	13.76%	55.0	53.5%	3.2

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 FMModel

In the absence of specific antenna data, the EPA-dipole, single bay model is used.