

## 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	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$ )	Distance to maximum PD (m)
PROPOSED W212CC	26	SCA CA5-FM	1	0.010	0.010	0.7	0.1%	0.7	0.4%	6.5
						0.7	<b>0.1%</b>	0.7	<b>0.4%</b>	6.5

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, parameter "Dipole EPA" is used to assume worst case.

This proposal with an increase in height, same antennna, and same ERP will cause a net decrease in total RF level at the shared site.