

## 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 meters	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$ )	Distance to maximum PD (m)
PROPOSED	50	SHI 6812B-1	1	0.027	0.027	0.02	0.0%	0.17	0.1%	49.6
WDKS	76	ERI-SHP	3	6.0	6.0	2.90	0.3%	7.70	3.9%	37.2
WKDQ	279	Dipole (EPA)	6	98	98	43.7	4.4%	49.0	24.5%	49
						43.7	<b>4.7%</b>	49.0	<b>28.4%</b>	49.6

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 information the "Dipole (EPA)" parameter is selected to represent "worst case."