

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)
WOXL-FM	54.0	SHI-6014-3HW	3	2.10	2.10	0.2	0.020%	2.2	1.10%	152
NEW-FX	38.0	(EPA dipole)	1	0.01	0.01	2.4	0.240%	2.4	1.20%	4
NEW-FX	18.0	(EPA dipole)	1	0.02	0.02	3.0	0.300%	0.3	0.15%	10
WTMT	54.0	SHI-6014-3HW	3	9.50	9.50	0.7	0.070%	9.7	4.85%	152
W251AO	24.0	(EPA dipole)	1	0.25	0.25	21.0	2.100%	21.0	10.50%	6
W220CD	41.0	(EPA dipole)	1	0.01	0.01	0.3	0.030%	0.3	0.15%	10
WLFA	8.0	(EPA dipole)	1	0.44	0.44	490.0	49.000%	35.0	17.50%	30
W288CQ (proposed)	28.0	SHI 6812B-1	1	0.09	0.09	0.8	0.080%	1.9	0.95%	27
						518.40	51.8%	72.8	36.4%	152

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