

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)
WSRV	526.0	(EPA dipole)*	1	100.00	100.00	13.00	1.300%	15.00	7.50%	141
WSRV-FS	244.0	ERI-SHPX-6	6	50.00	50.00	1.70	0.170%	4.00	2.00%	77
WYAY-FS	358.0	SHI-6010-6	6	19.00	19.00	0.10	0.010%	0.60	0.30%	122
WSBB	476.0	ERI-SHPX-6	4	40.00	40.00	0.40	0.040%	1.10	0.55%	195
W243CE	433.0	NIC-BKG77-2*	2	0.25	0.25	0.05	0.005%	0.06	0.03%	108
W228CA (proposed)	455.0	SHI-6812B-1	1	0.25	0.25	0.0005	0.000%	0.01	0.01%	468
						13.00	1.5%	15.0	10.4%	468

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, EPA dipole parameters are used with the FMModel ("worst case")