

WCWN

Channel 22 - Schenectady, New York

ERP = 177000.00 WATTS

APPENDIX A

Maximum ERP 177 kW

Polarization ----- 2 Circular
Antenna Height Above Ground -- 53.6 meters 175.9 feet
FCC Uncontrolled RFR Limit ---- 347.33 $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 15.190 $\mu\text{W}/\text{cm}^2$
4.37% of limit

Angle Below Horizontal (degrees)	<Point X> Horiz Distance from tower to 2 m AGL (meters)	Slant Distance from antenna to Point X (meters)	Vertical Pattern (REL. FIELD)	WCWN ERP (kW)	WCWN Calculated Power Density $\mu\text{W}/\text{cm}^2$	Percent Limit	Limit Exceeded?
0			0.972	167.2268			
5	589.8	592.0	0.200	7.0800	1.349	0.39%	No
10	292.6	297.2	0.242	10.3658	7.842	2.26%	No
15	192.6	199.4	0.059	0.6161	1.035	0.30%	No
20	141.8	150.9	0.171	5.1757	15.190	4.37%	No
25	110.7	122.1	0.047	0.3910	1.752	0.50%	No
30	89.4	103.2	0.071	0.8923	5.596	1.61%	No
35	73.7	90.0	0.035	0.2168	1.790	0.52%	No
40	61.5	80.3	0.065	0.7478	7.752	2.23%	No
45	51.6	73.0	0.052	0.4786	6.004	1.73%	No
50	43.3	67.4	0.062	0.6804	10.017	2.88%	No
55	36.1	63.0	0.031	0.1701	2.864	0.82%	No
60	29.8	59.6	0.056	0.5551	10.444	3.01%	No
65	24.1	56.9	0.017	0.0512	1.054	0.30%	No
70	18.8	54.9	0.036	0.2294	5.082	1.46%	No
75	13.8	53.4	0.021	0.0781	1.827	0.53%	No
80	9.1	52.4	0.011	0.0214	0.521	0.15%	No
85	4.5	51.8	0.003	0.0016	0.040	0.01%	No
90	0.0	51.6	0.000	0.0000	0.000	0.00%	No

