

WCWF
Channel 15 - Suring, Wisconsin
ERP = 700000.00 WATTS

APPENDIX A

Maximum ERP 700 kW

Polarization ----- 2 Circular
 Antenna Height Above Ground - 319 meters 1046.6 feet
 FCC Uncontrolled RFR Limit --- 319.33 $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 15.906 $\mu\text{W}/\text{cm}^2$
 4.98% 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)	WCWF ERP (kW)	WCWF Calculated Power Density $\mu\text{W}/\text{cm}^2$	Percent Limit	Limit Exceeded?
1			1.000	700.0000			
5	3623.3	3637.2	0.503	177.1063	0.894	0.28%	No
10	1797.8	1825.5	0.307	65.9743	1.322	0.41%	No
15	1183.1	1224.8	0.051	1.8207	0.081	0.03%	No
20	871.0	926.8	0.110	8.4700	0.659	0.21%	No
25	679.8	750.1	0.147	15.1263	1.796	0.56%	No
30	549.1	634.0	0.000	0.0000	0.000	0.00%	No
35	452.7	552.7	0.017	0.2023	0.044	0.01%	No
40	377.8	493.2	0.170	20.2300	5.556	1.74%	No
45	317.0	448.3	0.126	11.1132	3.694	1.16%	No
50	266.0	413.8	0.096	6.4512	2.517	0.79%	No
55	222.0	387.0	0.099	6.8607	3.060	0.96%	No
60	183.0	366.0	0.164	18.8272	9.387	2.94%	No
65	147.8	349.8	0.204	29.1312	15.906	4.98%	No
70	115.4	337.3	0.158	17.4748	10.258	3.21%	No
75	84.9	328.2	0.086	5.1772	3.211	1.01%	No
80	55.9	321.9	0.033	0.7623	0.491	0.15%	No
85	27.7	318.2	0.008	0.0448	0.030	0.01%	No
90	0.0	317.0	0.000	0.0000	0.000	0.00%	No

