

WCWF

Channel 15 - Suring, Wisconsin
ERP = 600000.00 WATTS

APPENDIX A

Maximum ERP 600 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 2.322 $\mu\text{W}/\text{cm}^2$
0.73% 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?
0			1.000	600.0000			
5	3623.3	3637.2	0.153	14.0454	0.071	0.02%	No
10	1797.8	1825.5	0.082	4.0344	0.081	0.03%	No
15	1183.1	1224.8	0.072	3.1104	0.139	0.04%	No
20	871.0	926.8	0.051	1.5606	0.121	0.04%	No
25	679.8	750.1	0.050	1.5000	0.178	0.06%	No
30	549.1	634.0	0.025	0.3750	0.062	0.02%	No
35	452.7	552.7	0.029	0.5046	0.110	0.03%	No
40	377.8	493.2	0.067	2.6934	0.740	0.23%	No
45	317.0	448.3	0.060	2.1600	0.718	0.22%	No
50	266.0	413.8	0.052	1.6224	0.633	0.20%	No
55	222.0	387.0	0.054	1.7496	0.780	0.24%	No
60	183.0	366.0	0.036	0.7776	0.388	0.12%	No
65	147.8	349.8	0.054	1.7496	0.955	0.30%	No
70	115.4	337.3	0.027	0.4374	0.257	0.08%	No
75	84.9	328.2	0.079	3.7446	2.322	0.73%	No
80	55.9	321.9	0.056	1.8816	1.213	0.38%	No
85	27.7	318.2	0.016	0.1536	0.101	0.03%	No
90	0.0	317.0	0.000	0.0000	0.000	0.00%	No

