

**WFSF, Marion, South Carolina
Application for License**

**Polar Graph of
Comparison of the Construction Permit Pattern, the New Modified Composite
Antenna Pattern, and the Constructed Antenna Composite Pattern**

85.50 % of the New Modified Composite Envelope is Filled by the Constructed Composite Envelope

<u>AZ</u>	Construction Permit	New Modified Pattern			Construction Pattern		
	<u>Field</u>	<u>Field</u>	<u>dBk</u>	<u>kW</u>	<u>Field</u>	<u>dBk</u>	<u>kW</u>
0	1.000	0.920	13.255	21.160	0.634	10.021	10.049
10	1.000	0.925	13.302	21.391	0.635	10.035	10.081
20	1.000	0.930	13.349	21.623	0.692	10.782	11.972
30	1.000	0.935	13.396	21.856	0.715	11.066	12.781
40	1.000	0.940	13.442	22.090	0.705	10.943	12.426
50	1.000	0.945	13.488	22.326	0.667	10.462	11.122
60	1.000	0.950	13.534	22.563	0.611	9.700	9.333
70	1.000	0.955	13.579	22.801	0.586	9.337	8.585
80	1.000	0.960	13.625	23.040	0.625	9.897	9.766
90	1.000	0.965	13.670	23.281	0.713	11.041	12.709
100	1.000	0.970	13.715	23.523	0.807	12.117	16.281
110	1.000	0.975	13.759	23.766	0.863	12.700	18.619
120	1.000	0.980	13.804	24.010	0.884	12.908	19.536
130	1.000	0.985	13.848	24.256	0.862	12.690	18.576
140	1.000	0.990	13.892	24.503	0.814	12.192	16.565
150	1.000	0.995	13.936	24.751	0.783	11.855	15.327
160	1.000	1.000	13.979	25.000	0.766	11.664	14.669
170	1.000	1.000	13.979	25.000	0.798	12.019	15.920
180	1.000	1.000	13.979	25.000	0.866	12.730	18.749
190	1.000	1.000	13.979	25.000	0.916	13.217	20.976
200	1.000	1.000	13.979	25.000	0.958	13.607	22.944
210	1.000	1.000	13.979	25.000	0.997	13.953	24.850
220	1.000	1.000	13.979	25.000	0.995	13.936	24.751
230	1.000	0.970	13.715	23.523	0.966	13.679	23.329
240	1.000	0.910	13.160	20.703	0.903	13.093	20.385
250	0.946	0.830	12.361	17.223	0.821	12.266	16.851
260	0.760	0.750	11.481	14.063	0.731	11.258	13.359
270	0.707	0.710	11.005	12.603	0.681	10.642	11.594
280	0.707	0.695	10.819	12.076	0.682	10.655	11.628
290	0.760	0.750	11.481	14.063	0.735	11.305	13.506
300	0.946	0.830	12.361	17.223	0.820	12.256	16.810
310	1.000	0.890	12.967	19.803	0.880	12.869	19.360
320	1.000	0.900	13.064	20.250	0.892	12.987	19.892
330	1.000	0.905	13.112	20.476	0.852	12.588	18.148
340	1.000	0.910	13.160	20.703	0.777	11.788	15.093
350	1.000	0.915	13.208	20.931	0.694	10.807	12.041