

WKMQ-FM, Loves Park, Illinois
Application for License

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

91.17 % of the New Modified Composite Envelope is Filled by the Constructed Composite Envelope

AZ	Construction Permit		New Modified Pattern *		Construction Pattern		
	Field	Field	dBk	kW	Field	dBk	kW
0	1.000	0.550	-1.769	0.666	0.469	-3.152	0.484
10	1.000	0.620	-0.728	0.846	0.600	-1.013	0.792
20	1.000	0.670	-0.054	0.988	0.665	-0.119	0.973
30	1.000	0.700	0.326	1.078	0.659	-0.198	0.955
40	1.000	0.740	0.809	1.205	0.603	-0.969	0.800
50	0.911	0.780	1.266	1.338	0.533	-2.041	0.625
60	0.724	0.720	0.571	1.140	0.482	-2.915	0.511
70	0.617	0.610	-0.869	0.819	0.503	-2.544	0.557
80	0.617	0.610	-0.869	0.819	0.594	-1.100	0.776
90	0.724	0.724	0.619	1.153	0.714	0.498	1.122
100	0.911	0.910	2.605	1.822	0.790	1.377	1.373
110	1.000	0.960	3.070	2.028	0.843	1.941	1.563
120	1.000	0.980	3.249	2.113	0.912	2.624	1.830
130	1.000	1.000	3.424	2.200	0.960	3.070	2.028
140	1.000	1.000	3.424	2.200	0.997	3.398	2.187
150	1.000	1.000	3.424	2.200	0.989	3.328	2.152
160	1.000	1.000	3.424	2.200	0.999	3.416	2.196
170	1.000	0.980	3.249	2.113	0.978	3.231	2.104
180	1.000	0.910	2.605	1.822	0.899	2.499	1.778
190	1.000	0.820	1.701	1.479	0.787	1.344	1.363
200	1.000	0.750	0.925	1.238	0.658	-0.211	0.953
210	1.000	0.700	0.326	1.078	0.553	-1.721	0.673
220	1.000	0.700	0.326	1.078	0.545	-1.848	0.653
230	1.000	0.700	0.326	1.078	0.640	-0.452	0.901
240	1.000	0.700	0.326	1.078	0.678	0.049	1.011
250	1.000	0.630	-0.589	0.873	0.628	-0.617	0.868
260	1.000	0.500	-2.596	0.550	0.481	-2.933	0.509
270	1.000	0.450	-3.512	0.446	0.314	-6.637	0.217
280	1.000	0.400	-4.535	0.352	0.268	-8.013	0.158
290	1.000	0.350	-5.694	0.270	0.280	-7.633	0.172
300	1.000	0.350	-5.694	0.270	0.331	-6.179	0.241
310	1.000	0.350	-5.694	0.270	0.346	-5.794	0.263
320	1.000	0.350	-5.694	0.270	0.342	-5.895	0.257
330	1.000	0.400	-4.535	0.352	0.272	-7.884	0.163
340	1.000	0.450	-3.512	0.446	0.222	-9.649	0.108
350	1.000	0.500	-2.596	0.550	0.361	-5.426	0.287

* Request to use as license pattern.