

**Engineering Statement  
In Support of an  
Application for a Construction Permit  
KCVK(FM), Otterville, Missouri**

**KCVK Terrain-Contour Study**

**Reference Coordinates:**

**North Latitude: 38-39-21**

**West Longitude: 92-54-27**

Azimuth °T.	ERP = 2.5 kW Ave. Elev.	FM - 2-6 Tables		F(50-50) Distance to	F(50-50) Distance to
	3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	70 dBu Contour km	60 dBu Contour km
0	253.7	151.3	3.979	16.0	27.8
5	252.4	152.6	3.979	16.1	27.9
10	249.9	155.1	3.979	16.2	28.1
15	249.1	155.9	3.979	16.3	28.2
20	253.6	151.4	3.979	16.0	27.8
25	259.4	145.6	3.979	15.6	27.4
30	262.0	143.0	3.979	15.4	27.1
35	266.2	138.8	3.979	15.2	26.8
40	266.3	138.7	3.979	15.2	26.8
45	264.4	140.6	3.979	15.3	26.9
50	259.9	145.1	3.979	15.6	27.3
55	262.4	142.6	3.979	15.4	27.1
60	268.3	136.7	3.979	15.1	26.6
65	271.2	133.8	3.979	14.9	26.4
70	271.5	133.5	3.979	14.9	26.4
75	267.8	137.2	3.979	15.1	26.7
80	269.8	135.2	3.979	15.0	26.5
85	273.3	131.7	3.979	14.7	26.2
90	274.8	130.2	3.979	14.7	26.1
95	273.1	131.9	3.979	14.8	26.2
100	270.0	135.0	3.979	14.9	26.5
105	265.9	139.1	3.979	15.2	26.8
110	266.7	138.3	3.979	15.2	26.8
115	270.8	134.2	3.979	14.9	26.4
120	269.2	135.8	3.979	15.0	26.5
125	267.1	137.9	3.979	15.1	26.7
130	264.6	140.4	3.979	15.3	26.9
135	263.7	141.3	3.979	15.3	27.0
140	261.9	143.1	3.979	15.5	27.1
145	256.8	148.2	3.979	15.8	27.6
150	258.0	147.0	3.979	15.7	27.5
155	260.4	144.6	3.979	15.6	27.3

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ERP = 2.5 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Azimuth °T.	Ave. Elev.	Effective Antenna Height	ERP (dBk)	Distance to 70 dBu Contour km	Distance to 60 dBu Contour km
	3 to 16 km Meters AMSL				
160	264.0	141.0	3.979	15.3	27.0
165	267.4	137.6	3.979	15.1	26.7
170	265.4	139.6	3.979	15.2	26.9
175	264.1	140.9	3.979	15.3	27.0
180	256.2	148.8	3.979	15.8	27.6
185	255.1	149.9	3.979	15.9	27.7
190	252.9	152.1	3.979	16.0	27.9
195	262.9	142.1	3.979	15.4	27.1
200	262.0	143.0	3.979	15.5	27.1
205	251.2	153.8	3.979	16.1	28.0
210	254.8	150.2	3.979	15.9	27.7
215	268.6	136.4	3.186	14.4	25.6
220	271.8	133.2	2.392	13.5	24.3
225	264.2	140.8	1.401	13.2	23.7
230	256.3	148.7	0.410	12.8	23.0
235	245.1	159.9	-0.579	12.6	22.6
240	249.7	155.3	-1.568	11.7	21.1
245	247.3	157.7	-2.429	11.3	20.4
250	239.9	165.1	-3.291	11.0	19.8
255	232.5	172.5	-3.679	11.1	19.8
260	230.8	174.2	-4.067	10.9	19.4
265	226.9	178.1	-4.421	10.8	19.3
270	232.5	172.5	-4.775	10.4	18.6
275	235.6	169.4	-4.775	10.3	18.4
280	238.9	166.1	-4.775	10.2	18.2
285	238.7	166.3	-4.775	10.2	18.2
290	235.6	169.4	-4.775	10.3	18.4
295	236.0	169.0	-4.421	10.5	18.8
300	234.6	170.4	-4.067	10.7	19.2
305	227.8	177.2	-3.679	11.2	20.0
310	219.3	185.7	-3.291	11.7	20.9
315	212.6	192.4	-2.429	12.5	22.3
320	213.9	191.1	-1.568	13.0	23.2
325	217.0	188.0	-0.579	13.7	24.3
330	228.8	176.2	0.410	14.0	24.8
335	234.6	170.4	1.401	14.6	25.8
340	240.9	164.1	2.392	15.2	26.6
345	244.8	160.2	3.186	15.8	27.5
350	249.9	155.1	3.979	16.2	28.1
355	254.5	150.5	3.979	15.9	27.8