

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

KCVK Protected/KCLQ Interfering FM Overlap Study

KCVK
Channel = 299A
Max ERP = 2.5 kW
RCAMSL = 405 M
N. Lat = 383921
W. Lng = 925427

KCLQ
Channel = 300C2
Max ERP = 19 kW
RCAMSL = 523 M
N. Lat = 374811
W. Lng = 923301

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
000.0	002.5000	0151.3	027.8		345.9	019.0000	0208.4	126.4	39.4
010.0	002.5000	0155.2	028.2		348.0	019.0000	0214.2	125.2	39.8
020.0	002.5000	0151.4	027.8		349.9	019.0000	0216.6	122.8	40.3
030.0	002.5000	0142.9	027.1		351.6	019.0000	0218.7	119.5	41.1
040.0	002.5000	0138.4	026.8		353.1	019.0000	0220.8	116.0	41.8
050.0	002.5000	0145.0	027.3		354.8	019.0000	0223.1	112.7	42.6
060.0	002.5000	0136.5	026.6		355.7	019.0000	0224.8	108.3	43.7
070.0	002.5000	0133.3	026.3		356.4	019.0000	0226.5	103.9	45.0
080.0	002.5000	0135.2	026.5		357.0	019.0000	0228.1	099.4	46.3
090.0	002.5000	0130.1	026.1		356.9	019.0000	0227.6	094.8	47.7
100.0	002.5000	0134.8	026.5		356.7	019.0000	0227.2	090.2	49.1
110.0	002.5000	0138.3	026.8		355.9	019.0000	0225.3	085.7	50.5
120.0	002.5000	0135.7	026.5		354.2	019.0000	0222.2	081.8	51.6
130.0	002.5000	0140.3	026.9		352.2	019.0000	0219.5	078.1	52.7
140.0	002.5000	0143.0	027.1		349.5	019.0000	0216.2	075.2	53.5
150.0	002.5000	0147.0	027.5		346.2	019.0000	0209.4	073.0	54.0
160.0	002.5000	0141.0	027.0		342.5	019.0000	0199.9	072.7	53.7
170.0	002.5000	0139.5	026.9		338.8	019.0000	0195.5	073.2	53.3
180.0	002.5000	0148.7	027.6		335.2	019.0000	0192.4	074.0	53.0
190.0	002.5000	0152.1	027.9		331.9	019.0000	0188.0	076.3	52.0
200.0	002.5000	0142.9	027.1		329.8	019.0000	0184.0	080.2	50.6
210.0	002.5000	0150.1	027.7		327.7	019.0000	0179.9	083.9	49.3
220.0	001.7347	0133.1	024.3		328.6	019.0000	0181.0	089.4	47.6
230.0	001.0989	0148.8	023.0		328.8	019.0000	0181.4	093.7	46.4
240.0	000.6970	0155.3	021.1		329.8	019.0000	0183.8	097.6	45.3
250.0	000.4687	0165.1	019.8		330.7	019.0000	0186.1	101.1	44.5
260.0	000.3920	0174.2	019.4		331.4	019.0000	0187.2	104.3	43.6
270.0	000.3331	0172.5	018.6		332.5	019.0000	0188.7	107.0	43.0
280.0	000.3331	0166.0	018.2		333.6	019.0000	0190.1	109.5	42.5
290.0	000.3331	0169.4	018.4		334.6	019.0000	0191.6	112.0	41.9
300.0	000.3920	0170.6	019.3		335.6	019.0000	0192.9	114.8	41.4
310.0	000.4687	0185.6	020.9		336.6	019.0000	0193.7	118.0	40.8
320.0	000.6970	0191.0	023.2		337.9	019.0000	0194.5	121.5	40.1
330.0	001.0989	0176.2	024.8		339.6	019.0000	0196.5	124.1	39.6
340.0	001.7347	0164.3	026.6		341.6	019.0000	0198.7	126.3	39.2
350.0	002.5000	0155.1	028.1		343.8	019.0000	0202.2	127.6	39.1