

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

KCLQ Protected/KCVK Interfering FM Overlap Study

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

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

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	019.0000	0235.0	051.4	144.2	002.5000	0147.5	053.3	49.3
010.0	019.0000	0239.8	051.8	137.4	002.5000	0141.4	059.3	46.7
020.0	019.0000	0242.4	052.0	133.1	002.5000	0140.7	067.1	44.0
030.0	019.0000	0236.6	051.5	131.2	002.5000	0140.3	075.8	41.2
040.0	019.0000	0229.6	051.0	130.9	002.5000	0140.3	084.8	38.5
050.0	019.0000	0217.9	050.1	131.8	002.5000	0140.3	093.5	36.0
060.0	019.0000	0202.3	048.8	133.5	002.5000	0140.8	101.7	33.9
070.0	019.0000	0206.2	049.1	135.0	002.5000	0141.2	109.8	32.1
080.0	019.0000	0230.9	051.1	136.3	002.5000	0141.3	118.4	30.4
090.0	019.0000	0240.7	051.8	138.5	002.5000	0141.9	126.0	29.0
100.0	019.0000	0235.0	051.4	141.5	002.5000	0144.5	132.1	28.0
110.0	019.0000	0237.4	051.6	144.4	002.5000	0147.7	137.8	26.9
120.0	019.0000	0236.2	051.5	147.6	002.5000	0148.2	142.4	26.0
130.0	019.0000	0224.8	050.6	151.0	002.5000	0146.9	145.3	25.5
140.0	019.0000	0215.9	049.9	154.3	002.5000	0145.0	147.3	25.1
150.0	019.0000	0223.5	050.5	157.6	002.5000	0143.5	149.5	24.7
160.0	019.0000	0206.3	049.2	161.0	002.5000	0139.7	148.9	24.7
170.0	019.0000	0194.5	048.2	164.3	002.5000	0137.6	147.6	24.8
180.0	019.0000	0184.4	047.4	167.5	002.5000	0137.8	145.4	25.2
190.0	019.0000	0173.7	046.4	170.5	002.5000	0139.8	142.3	25.8
200.0	019.0000	0165.2	045.5	173.4	002.5000	0139.9	138.3	26.6
210.0	019.0000	0159.4	044.8	176.1	002.5000	0142.7	133.7	27.6
220.0	019.0000	0167.7	045.8	179.1	002.5000	0147.6	129.7	28.5
230.0	019.0000	0168.8	045.9	181.8	002.5000	0148.5	124.2	29.6
240.0	019.0000	0178.1	046.8	184.5	002.5000	0148.9	118.4	30.7
250.0	019.0000	0180.1	047.0	186.6	002.5000	0152.6	111.5	32.1
260.0	019.0000	0183.6	047.3	188.5	002.5000	0152.8	104.0	33.8
270.0	019.0000	0190.2	047.8	189.9	002.5000	0152.1	096.1	35.8
280.0	019.0000	0196.0	048.3	190.7	002.5000	0152.0	087.8	38.1
290.0	019.0000	0206.9	049.2	190.9	002.5000	0151.9	079.3	40.7
300.0	019.0000	0216.1	049.9	189.8	002.5000	0152.2	070.7	43.4
310.0	019.0000	0198.9	048.5	185.4	002.5000	0150.6	063.7	45.6
320.0	019.0000	0192.4	048.0	179.6	002.5000	0148.2	057.9	47.6
330.0	019.0000	0184.5	047.4	172.0	002.5000	0140.1	054.2	48.6
340.0	019.0000	0197.0	048.4	163.4	002.5000	0137.7	051.3	49.5
350.0	019.0000	0216.7	050.0	153.7	002.5000	0145.5	050.7	50.2