

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

KMAJ Protected/KCVK Interfering FM Overlap Study

KMAJ
Channel = 299C1
Max ERP = 100 kW
RCAMSL = 541 M
N. Lat = 390045
W. Lng = 950146

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

Protected
60 dBu

Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
000.0	100.0000	0287.5	071.4		301.9	000.4064	0173.1	214.4	06.0
010.0	100.0000	0281.1	070.9		303.3	000.4167	0175.1	203.1	08.1
020.0	100.0000	0270.7	070.0		304.1	000.4228	0176.1	191.2	10.4
030.0	100.0000	0257.2	068.8		304.3	000.4241	0176.3	179.1	12.6
040.0	100.0000	0258.5	068.9		304.2	000.4232	0176.2	167.2	14.8
050.0	100.0000	0261.1	069.2		303.3	000.4168	0175.1	155.4	16.7
060.0	100.0000	0265.2	069.5		301.6	000.4037	0172.5	144.2	18.4
070.0	100.0000	0281.2	070.9		299.1	000.3863	0169.7	133.6	20.2
080.0	100.0000	0277.2	070.5		294.8	000.3610	0169.1	125.8	21.4
090.0	100.0000	0278.4	070.6		289.7	000.3331	0169.4	120.3	22.1
100.0	100.0000	0279.6	070.7		283.9	000.3331	0165.1	117.9	22.5
110.0	100.0000	0277.1	070.5		277.9	000.3331	0168.1	119.2	22.3
120.0	100.0000	0280.9	070.8		272.4	000.3331	0169.7	123.3	21.6
130.0	100.0000	0277.9	070.6		267.9	000.3449	0176.1	130.8	20.4
140.0	100.0000	0266.2	069.6		264.9	000.3626	0178.0	140.8	18.7
150.0	100.0000	0264.5	069.5		262.7	000.3756	0176.2	151.6	16.9
160.0	100.0000	0269.0	069.8		261.4	000.3837	0175.0	163.2	15.1
170.0	100.0000	0266.9	069.7		261.1	000.3856	0174.7	175.4	12.9
180.0	100.0000	0270.9	070.0		261.3	000.3841	0174.9	187.5	10.6
190.0	100.0000	0273.6	070.2		262.1	000.3790	0175.6	199.4	08.4
200.0	100.0000	0280.8	070.8		263.4	000.3716	0176.8	211.0	06.3
210.0	100.0000	0285.7	071.2		265.0	000.3617	0178.1	221.7	04.3
220.0	100.0000	0291.8	071.7		267.0	000.3502	0177.4	231.5	02.5
230.0	100.0000	0288.4	071.5		269.3	000.3368	0173.6	239.6	01.1
240.0	100.0000	0286.8	071.3		271.8	000.3331	0170.0	246.4	-00.2
250.0	100.0000	0281.8	070.9		274.4	000.3331	0169.5	251.6	-01.1
260.0	100.0000	0277.9	070.6		277.1	000.3331	0168.6	255.3	-01.8
270.0	100.0000	0274.7	070.3		279.8	000.3331	0166.2	257.6	-02.2
280.0	100.0000	0262.1	069.2		282.5	000.3331	0164.2	257.5	-02.3
290.0	100.0000	0263.6	069.4		285.2	000.3331	0166.5	257.0	-02.1
300.0	100.0000	0264.8	069.5		287.9	000.3331	0169.1	255.0	-01.7
310.0	100.0000	0261.3	069.2		290.5	000.3358	0169.3	251.2	-01.0
320.0	100.0000	0257.7	068.9		293.0	000.3501	0169.2	245.9	00.1
330.0	100.0000	0265.1	069.5		295.4	000.3646	0169.1	240.0	01.2
340.0	100.0000	0274.8	070.3		297.8	000.3789	0169.1	232.9	02.5
350.0	100.0000	0276.8	070.5		299.9	000.3916	0170.5	224.0	04.1