

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

KCVK Protected/KMAJ Interfering FM Overlap Study (1° Increments)

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

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

Protected 60 dBu				Interfering 40 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
262.0	000.3799	0175.5	019.4	103.8	100.0000	0280.0	170.4	39.9
263.0	000.3738	0176.4	019.3	103.7	100.0000	0280.1	170.3	40.0
264.0	000.3679	0177.5	019.3	103.6	100.0000	0280.1	170.2	40.0
265.0	000.3620	0178.1	019.3	103.5	100.0000	0280.1	170.2	40.0
266.0	000.3561	0178.1	019.2	103.4	100.0000	0280.1	170.1	40.0
267.0	000.3503	0177.4	019.1	103.3	100.0000	0280.1	170.1	40.0
268.0	000.3445	0175.9	018.9	103.1	100.0000	0280.1	170.2	40.0
269.0	000.3387	0174.2	018.8	103.0	100.0000	0280.1	170.2	40.0
270.0	000.3331	0172.5	018.6	102.9	100.0000	0280.1	170.3	40.0
271.0	000.3331	0170.8	018.5	102.8	100.0000	0280.1	170.3	40.0
272.0	000.3331	0169.9	018.4	102.7	100.0000	0280.1	170.3	40.0
273.0	000.3331	0169.6	018.4	102.6	100.0000	0280.1	170.3	40.0
274.0	000.3331	0169.5	018.4	102.5	100.0000	0280.1	170.2	40.0
275.0	000.3331	0169.5	018.4	102.4	100.0000	0280.0	170.2	40.0
276.0	000.3331	0169.2	018.4	102.2	100.0000	0280.0	170.1	40.0
277.0	000.3331	0168.7	018.4	102.1	100.0000	0280.0	170.1	40.0
278.0	000.3331	0168.1	018.3	102.0	100.0000	0279.9	170.1	40.0
279.0	000.3331	0167.2	018.3	101.9	100.0000	0279.9	170.2	40.0
280.0	000.3331	0166.0	018.2	101.8	100.0000	0279.8	170.2	40.0
281.0	000.3331	0164.7	018.1	101.7	100.0000	0279.8	170.3	40.0
282.0	000.3331	0164.1	018.1	101.6	100.0000	0279.8	170.3	40.0
283.0	000.3331	0164.5	018.1	101.5	100.0000	0279.8	170.3	40.0
284.0	000.3331	0165.2	018.2	101.4	100.0000	0279.8	170.2	40.0
285.0	000.3331	0166.2	018.2	101.3	100.0000	0279.8	170.2	40.0
286.0	000.3331	0167.3	018.3	101.2	100.0000	0279.7	170.1	40.0
287.0	000.3331	0168.4	018.4	101.1	100.0000	0279.7	170.1	40.0
288.0	000.3331	0169.2	018.4	100.9	100.0000	0279.7	170.1	40.0
289.0	000.3331	0169.4	018.4	100.8	100.0000	0279.7	170.1	40.0
290.0	000.3331	0169.4	018.4	100.7	100.0000	0279.7	170.2	40.0
291.0	000.3387	0169.3	018.5	100.6	100.0000	0279.7	170.1	40.0
292.0	000.3445	0169.3	018.6	100.5	100.0000	0279.7	170.1	40.0
293.0	000.3503	0169.2	018.6	100.4	100.0000	0279.7	170.1	40.0
294.0	000.3561	0169.1	018.7	100.3	100.0000	0279.7	170.1	40.0
295.0	000.3620	0169.1	018.8	100.2	100.0000	0279.6	170.1	40.0
296.0	000.3679	0169.0	018.9	100.0	100.0000	0279.6	170.1	40.0
297.0	000.3738	0169.0	018.9	099.9	100.0000	0279.6	170.1	40.0
298.0	000.3799	0169.2	019.0	099.8	100.0000	0279.5	170.1	40.0
299.0	000.3859	0169.7	019.1	099.7	100.0000	0279.4	170.1	40.0
300.0	000.3920	0170.6	019.3	099.6	100.0000	0279.4	170.1	40.0
301.0	000.3994	0171.8	019.4	099.5	100.0000	0279.3	170.1	40.0
302.0	000.4068	0173.1	019.6	099.3	100.0000	0279.2	170.1	40.0
303.0	000.4143	0174.7	019.7	099.2	100.0000	0279.2	170.0	40.0
304.0	000.4219	0176.0	019.9	099.1	100.0000	0279.1	170.0	40.0
305.0	000.4295	0177.2	020.0	098.9	100.0000	0279.1	170.0	40.0
306.0	000.4372	0178.8	020.2	098.8	100.0000	0279.1	170.0	40.0
307.0	000.4450	0180.6	020.4	098.7	100.0000	0279.0	170.0	40.0
308.0	000.4528	0182.6	020.6	098.5	100.0000	0279.0	170.0	40.0
309.0	000.4607	0184.3	020.7	098.4	100.0000	0279.0	170.1	40.0
310.0	000.4687	0185.6	020.9	098.3	100.0000	0279.0	170.1	40.0
311.0	000.4895	0186.9	021.2	098.1	100.0000	0279.0	170.1	40.0
312.0	000.5108	0188.5	021.5	098.0	100.0000	0279.0	170.0	40.0
313.0	000.5325	0190.3	021.8	097.8	100.0000	0279.0	170.0	40.0
314.0	000.5546	0191.7	022.0	097.6	100.0000	0279.0	170.0	40.0
315.0	000.5772	0192.2	022.3	097.5	100.0000	0279.0	170.0	40.0
316.0	000.6002	0192.1	022.5	097.3	100.0000	0279.0	170.1	40.0
317.0	000.6238	0191.8	022.7	097.2	100.0000	0278.9	170.2	40.0
318.0	000.6477	0191.4	022.8	097.1	100.0000	0278.9	170.3	39.9