

**Engineering Statement**  
**In Support of an Application for a Construction Permit**  
**KWIC, Topeka, KS, Channel 257C3**

**KWIC Terrain-Contour Study**

**Reference Coordinates:**

**North Latitude: 39-03-50**

**West Longitude: 95-45-49**

Azimuth °T.	ERP = 6 kW Ave. Elev. 3 to 16 km	FM - 2-6 Tables Effective Antenna Height	ERP (dBk)	F(50-50) Distance to 70 dBu Contour	F(50-50) Distance to 60 dBu Contour
	Meters AMSL	Meters AAT		km	km
0	178.5	86.9	7.782	21.3	37.1
5	172.9	93.0	7.782	21.2	36.5
10	165.2	93.5	7.782	21.1	35.8
15	175.6	93.6	7.782	21.8	36.8
20	179.3	92.7	7.782	21.5	37.1
25	174.9	93.5	7.782	21.0	36.7
30	178.9	97.0	7.782	21.6	37.1
35	182.7	97.9	7.782	21.8	37.4
40	183.5	99.9	7.782	21.6	37.5
45	184.8	100.	7.782	21.8	37.6
50	187	101.	7.782	22.0	37.8
55	188.8	103.	7.782	22.0	37.9
60	191	108.	7.782	22.1	38.1
65	191.5	114.	7.782	22.2	38.2
70	196	116.	7.782	22.3	38.5
75	203.3	118.	7.782	22.4	39.1
80	208.2	121.	7.782	22.4	39.5
85	205.7	119.	7.782	22.7	39.3
90	204.8	110.	7.782	23.1	39.2
95	201.4	98.4	7.782	23.3	38.9
100	193.8	87.2	7.782	23.2	38.3
105	185	80.1	7.782	23.1	37.6
110	182.5	75.7	7.782	23.0	37.4
115	179.8	75.1	7.782	22.6	37.2
120	176	70.3	7.782	22.1	36.8
125	174.9	70.5	7.782	22.0	36.7
130	169.6	76.2	7.782	21.8	36.2
135	169	71.4	7.782	21.6	36.1
140	167.6	68.5	7.782	21.6	36.0
145	168.5	69.3	7.782	21.2	36.1
150	168.4	72.9	7.782	21.2	36.1
155	167.6	71.1	7.782	21.1	36.0

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ERP = 8.1 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Azimuth °T.	Ave. Elev. 3 to 16 km	Effective Antenna Height Meters AAT	ERP (dBk)	Distance to 70 dBu Contour km	Distance to 60 dBu Contour km
	Meters AMSL				
160	159.6	71.5	7.782	20.7	35.2
165	151.4	69.0	7.782	20.1	34.2
170	148.6	66.1	7.782	19.9	33.9
175	146.2	68.3	7.782	19.8	33.7
180	145.8	67.7	7.782	19.7	33.6
185	149.9	71.5	7.782	20.0	34.1
190	148	74.2	7.782	19.9	33.9
195	145.9	71.3	7.782	19.8	33.6
200	144.6	71.0	7.782	19.7	33.5
205	145.8	69.0	7.782	19.7	33.6
210	137.1	72.4	7.782	19.1	32.6
215	131	69.1	7.782	18.7	31.9
220	129	65.9	7.782	18.6	31.7
225	130.1	62.8	7.782	18.6	31.8
230	142.1	64.4	7.782	19.5	33.2
235	154.7	73.6	7.782	20.3	34.6
240	167	76.0	7.782	21.1	36.0
245	161.5	73.2	7.782	20.8	35.4
250	159.5	71.1	7.782	20.6	35.1
255	164.1	69.9	7.782	20.9	35.6
260	174.1	74.1	7.782	21.5	36.7
265	181.2	77.5	7.782	21.9	37.3
270	182.1	83.3	7.782	21.9	37.4
275	184.1	98.8	7.782	22.1	37.5
280	194.1	104.8	7.782	22.6	38.4
285	197.7	109.3	7.782	22.8	38.6
290	195.5	110.5	7.782	22.6	38.5
295	194.1	108.8	7.782	22.6	38.4
300	191	102.6	7.782	22.4	38.1
305	184.7	103.6	7.782	22.1	37.6
310	174.5	110.3	7.782	21.5	36.7
315	172.6	105.2	7.782	21.4	36.5
320	175.1	100.3	7.782	21.6	36.8
325	177.5	96.8	7.782	21.7	37.0
330	181.2	94.2	7.782	21.9	37.3
335	180.1	91.7	7.782	21.8	37.2
340	183.7	93.6	7.782	22.0	37.5
345	185.3	102.2	7.782	22.1	37.6
350	183.1	100.1	7.782	22.0	37.5
355	179.9	89.8	7.782	21.8	37.2