

**Engineering Statement
In Support of an
Application for a Construction Permit**

KKCS-FM, Channel 270C2, Colorado Springs, CO

KKCS-FM Terrain/Contour Study

Reference Coordinates:

North Latitude: 39-08-11

West Longitude: 104-55-34

Azimuth °T.	ERP = 50.0 kW Ave. Elev.	FM - 2-6 Tables		F(50-50)	F(50-50)
	3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	Distance to 70 dBu Contour km	Distance to 60 dBu Contour km
0	2117.8	426.2	16.990	51.1	74.4
5	2123.2	420.8	16.990	50.8	74.0
10	2113.7	430.3	16.990	51.4	74.7
15	2120.3	423.7	16.990	51.0	74.2
20	2116.2	427.8	16.990	51.2	74.5
25	2122.4	421.6	16.990	50.9	74.1
30	2128.8	415.2	16.990	50.5	73.6
35	2136.6	407.4	16.990	50.1	73.0
40	2152.8	391.2	16.990	49.2	71.9
45	2169.2	374.8	16.990	48.4	70.8
50	2175.3	368.7	16.990	48.0	70.3
55	2164.0	380.0	16.990	48.6	71.1
60	2169.8	374.2	16.990	48.3	70.7
65	2182.9	361.1	16.990	47.6	69.8
70	2196.8	347.2	16.990	46.7	68.8
75	2209.7	334.3	16.990	46.0	67.9
80	2230.8	313.2	16.990	44.7	66.4
85	2236.1	307.9	16.990	44.4	66.0
90	2233.4	310.6	16.990	44.5	66.2
95	2237.3	306.7	16.990	44.3	65.9
100	2243.9	300.1	16.990	43.9	65.4
105	2249.5	294.5	16.990	43.6	65.0
110	2247.4	296.6	16.990	43.7	65.1
115	2238.7	305.3	16.990	44.2	65.8
120	2230.3	313.7	16.990	44.7	66.4
125	2208.0	336.0	16.990	46.1	68.0
130	2178.2	365.8	16.990	47.8	70.1
135	2145.2	398.8	16.990	49.7	72.4
140	2121.1	422.9	16.990	51.0	74.2
145	2104.0	440.0	16.990	51.9	75.4
150	2100.7	443.3	16.990	52.1	75.7
155	2122.7	421.3	16.990	50.9	74.0

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Exhibit E, Figure 2

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ERP = 50.0 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Ave. Elev.		Effective		Distance to	Distance to
Azimuth	3 to 16 km	Antenna Height	ERP	70 dBu Contour	60 dBu Contour
°T.	Meters AMSL	Meters AAT	(dBk)	km	km
160	2153.0	391.0	16.990	49.2	71.9
165	2181.2	362.8	16.990	47.7	69.9
170	2230.9	313.1	16.990	44.7	66.4
175	2387.0	157.0	16.990	33.4	53.1
180	2598.1	-54.1	16.990	15.0	26.5
185	2623.7	-79.7	16.990	15.0	26.5
190	2641.2	-97.2	16.990	15.0	26.5
195	2657.8	-113.8	16.990	15.0	26.5
200	2673.9	-129.9	16.990	15.0	26.5
205	2701.4	-157.4	16.990	15.0	26.5
210	2710.9	-166.9	16.990	15.0	26.5
215	2710.0	-166.0	16.990	15.0	26.5
220	2704.1	-160.1	16.990	15.0	26.5
225	2698.1	-154.1	16.990	15.0	26.5
230	2692.4	-148.4	16.990	15.0	26.5
235	2685.4	-141.4	16.990	15.0	26.5
240	2666.0	-122.0	16.990	15.0	26.5
245	2653.6	-109.6	16.990	15.0	26.5
250	2661.9	-117.9	16.990	15.0	26.5
255	2651.7	-107.7	16.990	15.0	26.5
260	2620.7	-76.7	16.990	15.0	26.5
265	2603.6	-59.6	16.990	15.0	26.5
270	2596.2	-52.2	16.990	15.0	26.5
275	2611.5	-67.5	16.990	15.0	26.5
280	2619.4	-75.4	16.990	15.0	26.5
285	2619.8	-75.8	16.990	15.0	26.5
290	2640.8	-96.8	16.990	15.0	26.5
295	2637.0	-93.0	16.990	15.0	26.5
300	2641.8	-97.8	16.990	15.0	26.5
305	2645.4	-101.4	16.990	15.0	26.5
310	2624.8	-80.8	16.990	15.0	26.5
315	2604.4	-60.4	16.990	15.0	26.5
320	2557.8	-13.8	16.990	15.0	26.5
325	2485.5	58.5	16.990	21.3	36.1
330	2352.4	191.6	16.990	36.7	56.6
335	2205.8	338.2	16.990	46.2	68.2
340	2143.7	400.3	16.990	49.7	72.5
345	2120.1	423.9	16.990	51.0	74.2
350	2106.9	437.1	16.990	51.7	75.2
355	2105.2	438.8	16.990	51.8	75.3