

## Engineering Statement

### In Support of an Application for a Construction Permit

#### KCSX-FM, Lee's Summit, Missouri Channel 247C1

#### KCSX Terrain-Contour Study

##### Reference Coordinates:

North Latitude: 39-05-26

West Longitude: 94-28-18

Azimuth °T.	ERP = 55 kW Ave. Elev. 3 to 16 km	FM - 2-6 Tables Effective Antenna Height		F(50-50) Distance to 70 dBu Contour	F(50-50) Distance to 60 dBu Contour
	Meters AMSL	Meters AAT	ERP (dBk)	km	km
0.0	232.9	384.3	17.404	49.8	72.4
5.0	231.3	385.9	17.404	49.8	72.5
10.0	226.5	390.7	17.404	50.1	72.9
15.0	227.4	389.8	17.404	50.1	72.8
20.0	227.8	389.4	17.404	50.0	72.8
25.0	227.4	389.8	17.404	50.1	72.8
30.0	223.0	394.2	17.404	50.3	73.1
35.0	227.1	390.1	17.404	50.1	72.8
40.0	248.5	368.7	17.404	48.9	71.3
45.0	252.1	365.1	17.404	48.7	71.1
50.0	253.3	363.9	17.404	48.6	71.0
55.0	263.0	354.2	17.404	48.0	70.3
60.0	269.8	347.4	17.404	47.6	69.8
65.0	275.8	341.4	17.404	47.3	69.4
70.0	280.5	336.7	17.404	47.0	69.0
75.0	276.6	340.6	17.404	47.2	69.3
80.0	272.6	344.6	17.404	47.4	69.6
85.0	268.4	348.8	17.404	47.7	69.9
90.0	263.1	354.1	17.404	48.0	70.3
95.0	269.1	348.1	17.404	47.7	69.9
100.0	274.1	343.1	17.404	47.4	69.5
105.0	274.1	343.1	17.404	47.4	69.5
110.0	272.3	344.9	17.404	47.5	69.6
115.0	273.4	343.8	17.404	47.4	69.6
120.0	273.1	344.1	17.404	47.4	69.6
125.0	274.7	342.5	17.404	47.3	69.5
130.0	277.0	340.2	17.404	47.2	69.3
135.0	276.8	340.4	17.404	47.2	69.3
140.0	278.9	338.3	17.404	47.1	69.2
145.0	282.9	334.3	17.404	46.8	68.9
150.0	286.2	331.0	17.404	46.6	68.6
155.0	284.0	333.2	17.404	46.7	68.8

Continued on the next page

Exhibit E, Figure 2

ERP = 55 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Azimuth	Ave. Elev.	Effective	ERP	Distance to	Distance to
°T.	3 to 16 km	Antenna Height	(dBk)	70 dBu Contour	60 dBu Contour
	Meters AMSL	Meters AAT		km	km
160.0	285.4	331.8	17.404	46.7	68.7
165.0	287.6	329.6	17.404	46.5	68.5
170.0	292.0	325.2	17.404	46.3	68.2
175.0	288.8	328.4	17.404	46.5	68.4
180.0	292.2	325.0	17.404	46.2	68.2
185.0	294.7	322.5	17.404	46.1	68.0
190.0	288.6	328.6	17.404	46.5	68.5
195.0	274.6	342.6	17.404	47.3	69.5
200.0	266.7	350.5	17.404	47.8	70.0
205.0	251.3	365.9	17.404	48.7	71.1
210.0	249.7	367.5	17.404	48.8	71.2
215.0	255.9	361.3	17.404	48.5	70.8
220.0	262.9	354.3	17.404	48.0	70.3
225.0	265.7	351.5	17.404	47.9	70.1
230.0	272.2	345.0	17.404	47.5	69.6
235.0	269.6	347.6	17.404	47.6	69.8
240.0	267.2	350.0	17.404	47.8	70.0
245.0	278.2	339.0	17.404	47.1	69.2
250.0	287.1	330.1	17.404	46.6	68.6
255.0	279.5	337.7	17.404	47.0	69.1
260.0	272.5	344.7	17.404	47.5	69.6
265.0	251.9	365.3	17.404	48.7	71.1
270.0	250.5	366.7	17.404	48.8	71.2
275.0	257.9	359.3	17.404	48.3	70.7
280.0	256.7	360.5	17.404	48.4	70.7
285.0	250.7	366.5	17.404	48.8	71.2
290.0	243.2	374.0	17.404	49.2	71.7
295.0	233.7	383.5	17.404	49.7	72.4
300.0	231.6	385.6	17.404	49.8	72.5
305.0	230.6	386.6	17.404	49.9	72.6
310.0	242.2	375.0	17.404	49.3	71.8
315.0	245.7	371.5	17.404	49.1	71.5
320.0	247.4	369.8	17.404	49.0	71.4
325.0	252.5	364.7	17.404	48.7	71.0
330.0	248.7	368.5	17.404	48.9	71.3
335.0	249.1	368.1	17.404	48.9	71.3
340.0	250.8	366.4	17.404	48.8	71.2
345.0	243.0	374.2	17.404	49.2	71.7
350.0	244.4	372.8	17.404	49.1	71.6
355.0	237.8	379.4	17.404	49.5	72.1