

Engineering Statement

In Support of an Application for a Construction Permit

**KNIM(FM), Maryville, Missouri
Channel 246C3**

KNIM Terrain-Contour Study

Reference Coordinates:

North Latitude: 40-23-31

West Longitude: 94-58-04

ERP = 21.5 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
0.0	316.4	109.0	13.324	23.4	39.3
5.0	319.2	106.2	13.324	23.1	38.9
10.0	328.6	96.8	13.324	22.1	37.4
15.0	335.8	89.6	13.324	21.2	36.1
20.0	338.5	86.9	13.324	20.9	35.6
25.0	337.9	87.5	13.324	21.0	35.7
30.0	336.8	88.6	13.324	21.1	35.9
35.0	340.5	84.9	13.324	20.7	35.2
40.0	338.0	87.4	13.324	21.0	35.6
45.0	336.9	88.5	13.324	21.1	35.9
50.0	336.2	89.2	13.324	21.2	36.0
55.0	335.5	89.9	13.324	21.3	36.1
60.0	334.6	90.8	13.324	21.4	36.3
65.0	330.0	95.4	13.324	21.9	37.1
70.0	329.2	96.2	13.324	22.0	37.2
75.0	330.3	95.1	13.324	21.9	37.1
80.0	330.3	95.1	13.324	21.9	37.1
85.0	330.2	95.2	13.324	21.9	37.1
90.0	328.4	97.0	13.324	22.1	37.4
95.0	327.1	98.3	13.324	22.2	37.6
100.0	325.4	100.0	13.324	22.4	37.9
105.0	322.9	102.5	13.324	22.7	38.3
110.0	322.3	103.1	13.324	22.8	38.4
115.0	323.5	101.9	13.324	22.6	38.2
120.0	322.2	103.2	13.324	22.8	38.4
125.0	321.9	103.5	13.324	22.8	38.4
130.0	323.4	102.0	13.324	22.7	38.2
135.0	326.7	98.7	13.324	22.3	37.7
140.0	325.8	99.6	13.324	22.4	37.8
145.0	327.4	98.0	13.324	22.2	37.6
150.0	326.6	98.8	13.324	22.3	37.7
155.0	322.0	103.4	13.324	22.8	38.4

Continued on the next page

Exhibit E, Figure 2

ERP =	21.5 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	323.6	101.8	13.324	22.6	38.2
165.0	332.6	92.8	13.324	21.6	36.6
170.0	333.0	92.4	13.324	21.6	36.6
175.0	327.5	97.9	13.324	22.2	37.5
180.0	322.9	102.5	13.324	22.7	38.3
185.0	320.7	104.7	13.324	22.9	38.6
190.0	318.1	107.3	13.324	23.2	39.0
195.0	313.4	112.0	13.324	23.7	39.7
200.0	316.3	109.1	13.324	23.4	39.3
205.0	313.5	111.9	13.324	23.7	39.7
210.0	303.6	121.8	13.324	24.5	41.0
215.0	296.2	129.2	13.324	25.1	42.0
220.0	296.1	129.3	13.324	25.1	42.0
225.0	298.3	127.1	13.324	25.0	41.7
230.0	299.0	126.4	13.324	24.9	41.6
235.0	293.0	132.4	13.324	25.4	42.4
240.0	293.7	131.7	13.324	25.3	42.3
245.0	295.0	130.4	13.324	25.2	42.1
250.0	299.5	125.9	13.324	24.9	41.5
255.0	303.5	121.9	13.324	24.6	41.0
260.0	300.0	125.4	13.324	24.8	41.5
265.0	301.8	123.6	13.324	24.7	41.2
270.0	303.0	122.4	13.324	24.6	41.1
275.0	302.9	122.5	13.324	24.6	41.1
280.0	303.9	121.5	13.324	24.5	41.0
285.0	306.5	118.9	13.324	24.3	40.7
290.0	307.3	118.1	13.324	24.2	40.6
295.0	305.3	120.1	13.324	24.4	40.8
300.0	300.7	124.7	13.324	24.8	41.4
305.0	299.8	125.6	13.324	24.8	41.5
310.0	303.2	122.2	13.324	24.6	41.1
315.0	307.6	117.8	13.324	24.2	40.5
320.0	305.0	120.4	13.324	24.4	40.8
325.0	302.5	122.9	13.324	24.6	41.2
330.0	305.0	120.4	13.324	24.4	40.8
335.0	311.0	114.4	13.324	23.9	40.1
340.0	316.2	109.2	13.324	23.4	39.3
345.0	323.4	102.0	13.324	22.7	38.2
350.0	324.5	100.9	13.324	22.5	38.0
355.0	317.0	108.4	13.324	23.3	39.2