

Engineering Statement

In Support of an Application for a Construction Permit

**KNKN, Pueblo, Colorado
Channel 295C2**

KNKN Terrain-Contour Study

Reference Coordinates:

North Latitude: 38-06-22

West Longitude: 104-29-18

Azimuth °T.	ERP = 27.5 kW Ave. Elev. 3 to 16 km	FM - 2-6 Tables Effective Antenna Height	ERP (dBk)	F(50-50) Distance to 70 dBu Contour km	F(50-50) Distance to 60 dBu Contour km
	Meters AMSL	Meters AAT			
0	1460.2	249.3	14.393	36.1	55.9
5	1457.6	251.9	14.393	36.3	56.1
10	1455.6	253.9	14.393	36.4	56.2
15	1454.6	254.9	14.393	36.4	56.3
20	1452.7	256.8	14.393	36.6	56.4
25	1449.2	260.3	14.393	36.8	56.7
30	1441.0	268.5	14.393	37.3	57.3
35	1443.2	266.3	14.393	37.1	57.1
40	1444.9	264.6	14.393	37.0	57.0
45	1445.7	263.8	14.393	37.0	56.9
50	1445.6	263.9	14.393	37.0	56.9
55	1439.0	270.5	14.393	37.4	57.4
60	1436.0	273.5	14.393	37.6	57.6
65	1433.4	276.1	14.393	37.7	57.8
70	1431.5	278.0	14.393	37.8	58.0
75	1436.8	272.7	14.393	37.5	57.6
80	1442.9	266.6	14.393	37.1	57.1
85	1446.3	263.2	14.393	36.9	56.9
90	1446.4	263.1	14.393	36.9	56.9
95	1445.0	264.5	14.393	37.0	57.0
100	1450.4	259.1	14.393	36.7	56.6
105	1459.1	250.4	14.393	36.2	55.9
110	1464.4	245.1	14.393	35.8	55.6
115	1469.9	239.6	14.393	35.5	55.1
120	1474.5	235.0	14.393	35.2	54.8
125	1478.8	230.7	14.393	34.9	54.5
130	1483.1	226.4	14.393	34.6	54.1
135	1489.5	220.0	14.393	34.1	53.6
140	1494.5	215.0	14.393	33.7	53.2
145	1503.1	206.4	14.393	33.0	52.5
150	1519.5	190.0	14.393	31.6	51.1
155	1528.7	180.8	14.393	30.9	50.4

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Exhibit E, Figure 2

ERP = 27.5 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Azimuth °T.	Ave. Elev.	Effective Antenna Height	ERP (dBk)	Distance to 70 dBu Contour km	Distance to 60 dBu Contour km
	3 to 16 km Meters AMSL				
160	1534.8	174.7	14.393	30.4	49.8
165	1523.4	186.1	14.393	31.3	50.8
170	1526.3	183.2	14.393	31.1	50.6
175	1543.1	166.4	14.393	29.7	48.9
180	1555.9	153.6	14.393	28.6	47.3
185	1564.2	145.3	14.393	27.9	46.2
190	1571.4	138.1	14.393	27.3	45.2
195	1586.7	122.8	14.393	26.0	43.2
200	1595.0	114.5	14.393	25.3	42.1
205	1612.8	96.7	14.393	23.4	39.3
210	1616.1	93.4	14.393	22.9	38.7
215	1623.9	85.6	14.393	22.0	37.3
220	1622.3	87.2	14.393	22.2	37.6
225	1618.4	91.1	14.393	22.6	38.3
230	1609.5	100.0	14.393	23.8	39.8
235	1609.1	100.4	14.393	23.8	39.9
240	1599.9	109.6	14.393	24.8	41.4
245	1594.1	115.4	14.393	25.3	42.2
250	1585.4	124.1	14.393	26.1	43.4
255	1577.0	132.5	14.393	26.8	44.5
260	1565.2	144.3	14.393	27.8	46.1
265	1563.6	145.9	14.393	27.9	46.3
270	1553.7	155.8	14.393	28.8	47.6
275	1544.9	164.6	14.393	29.5	48.7
280	1534.8	174.7	14.393	30.4	49.8
285	1521.9	187.6	14.393	31.4	50.9
290	1518.2	191.3	14.393	31.8	51.2
295	1510.0	199.5	14.393	32.5	51.9
300	1503.7	205.8	14.393	33.0	52.4
305	1497.2	212.3	14.393	33.5	53.0
310	1488.6	220.9	14.393	34.2	53.7
315	1484.5	225.0	14.393	34.5	54.0
320	1481.0	228.5	14.393	34.7	54.3
325	1478.1	231.4	14.393	34.9	54.5
330	1478.0	231.5	14.393	34.9	54.5
335	1477.2	232.3	14.393	35.0	54.6
340	1472.8	236.7	14.393	35.3	54.9
345	1466.0	243.5	14.393	35.7	55.4
350	1462.2	247.3	14.393	36.0	55.7
355	1461.9	247.6	14.393	36.0	55.7