

**Engineering Statement  
In Support of an  
Application for a Construction Permit  
KBKL(FM), Grand Junction, Colorado**

**KBKL Terrain-Contour Study**

**Reference Coordinates:**

**North Latitude: 39-03-56**

**West Longitude: 108-44-52**

Azimuth °T.	ERP = 100 kW Ave. Elev. 3 to 16 km	FM - 2-6 Tables		F(50-50) Distance to 70 dBu Contour	F(50-50) Distance to 60 dBu Contour
	Meters AMSL	Antenna Height Meters AAT	Effective ERP (dBk)	km	km
0	1480.7	788.3	20.000	74.4	99.1
5	1466.4	802.6	20.000	74.8	99.7
10	1457.4	811.6	20.000	75.1	100.0
15	1446.9	822.1	20.000	75.4	100.4
20	1442.6	826.4	20.000	75.5	100.6
25	1437.8	831.2	20.000	75.6	100.8
30	1437.3	831.7	20.000	75.7	100.8
35	1439.9	829.1	20.000	75.6	100.7
40	1439.1	829.9	20.000	75.6	100.7
45	1441.3	827.7	20.000	75.5	100.6
50	1445.1	823.9	20.000	75.4	100.5
55	1441.5	827.5	20.000	75.5	100.6
60	1434.9	834.1	20.000	75.7	100.9
65	1437.2	831.8	20.000	75.7	100.8
70	1445.3	823.7	20.000	75.4	100.5
75	1457.9	811.1	20.000	75.1	100.0
80	1468.7	800.3	20.000	74.7	99.6
85	1486.7	782.3	20.000	74.2	98.9
90	1508.9	760.1	20.000	73.5	98.0
95	1539.6	729.4	20.000	72.4	96.8
100	1566.4	702.6	20.000	71.5	95.8
105	1601.2	667.8	20.000	70.2	94.4
110	1680.1	588.9	20.000	67.2	91.4
115	1738.8	530.2	20.000	64.2	88.5
120	1790.5	478.5	20.000	60.8	85.4
125	1859.7	409.3	20.000	56.8	80.4
130	1891.6	377.4	20.000	55.0	78.1
135	1971.4	297.6	20.000	49.9	72.2
140	2000.5	268.5	20.000	47.9	69.8
145	2032.4	236.6	20.000	45.7	67.1
150	2047.3	221.7	20.000	44.7	65.8
155	1480.7	180.5	20.000	41.5	62.0

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ERP = 100 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	2088.5	150.1	20.000	38.3	58.5
165	2118.9	123.8	20.000	35.1	54.8
170	2145.2	113.6	20.000	33.9	53.3
175	2155.4	118.0	20.000	34.4	53.9
180	2151.0	112.0	20.000	33.7	53.0
185	2157.0	128.3	20.000	35.7	55.4
190	2140.7	133.6	20.000	36.3	56.2
195	2135.4	141.0	20.000	37.2	57.2
200	2128.0	145.0	20.000	37.7	57.8
205	2124.0	146.6	20.000	37.8	58.0
210	2122.4	158.9	20.000	39.3	59.6
215	2110.1	168.6	20.000	40.4	60.7
220	2100.4	184.7	20.000	41.8	62.4
225	2084.3	198.2	20.000	42.9	63.6
230	2070.8	227.2	20.000	45.1	66.3
235	2041.8	238.7	20.000	45.9	67.3
240	2030.3	227.7	20.000	45.1	66.4
245	2041.3	231.8	20.000	45.4	66.7
250	2037.2	243.8	20.000	46.2	67.7
255	2025.2	261.4	20.000	47.4	69.2
260	2007.6	279.2	20.000	48.7	70.7
265	1989.8	283.0	20.000	48.9	71.0
270	1986.0	286.8	20.000	49.2	71.3
275	1982.2	303.3	20.000	50.3	72.6
280	1965.7	301.6	20.000	50.2	72.5
285	1967.4	298.1	20.000	50.0	72.2
290	1970.9	312.7	20.000	50.9	73.3
295	1956.3	331.5	20.000	52.2	74.7
300	1937.5	333.9	20.000	52.3	74.9
305	1935.1	337.5	20.000	52.5	75.2
310	1931.5	414.7	20.000	57.1	80.8
315	1854.3	487.8	20.000	61.4	86.0
320	1781.2	569.9	20.000	66.4	90.6
325	1699.1	608.8	20.000	68.0	92.2
330	1660.2	672.2	20.000	70.4	94.6
335	1596.8	721.2	20.000	72.2	96.5
340	1547.8	763.9	20.000	73.6	98.2
345	1505.1	760.2	20.000	73.5	98.0
350	1508.8	757.5	20.000	73.4	97.9
355	1511.5	771.6	20.000	73.8	98.5