

Engineering Statement

In Support of a Modification of an Existing License KWKD, Randolph, Utah

KWKD Licensed Terrain/Contour Study

Azimuth	ERP (dBk)	Terrain Average		Radiation	Distance to	Distance to
		Meters AMSL	Meters HAAT	Center	F(50,50) 70 dBu	F(50,50) 60 dBu
*0.0	19.823	2479.0	814.0		74.7	99.6
5.0	19.823	2489.3	803.7		74.4	99.2
10.0	19.823	2520.2	772.8		73.4	98.0
*15.0	19.823	2542.8	750.2		72.7	97.2
20.0	19.823	2565.9	727.1		71.9	96.3
25.0	19.823	2601.0	692.0		70.7	94.9
*30.0	19.823	2656.9	636.1		68.6	92.8
35.0	19.823	2698.0	595.0		67.0	91.2
40.0	19.823	2719.1	573.9		66.1	90.4
*45.0	19.823	2709.0	584.0		66.6	90.8
50.0	19.823	2687.8	605.2		67.4	91.6
55.0	19.823	2668.1	624.9		68.2	92.3
*60.0	19.823	2668.2	624.8		68.2	92.3
65.0	19.823	2677.5	615.5		67.8	92.0
70.0	19.823	2697.8	595.2		67.0	91.2
*75.0	19.823	2710.4	582.6		66.5	90.7
80.0	19.823	2727.4	565.6		65.7	90.0
85.0	19.823	2748.0	545.0		64.6	89.0
*90.0	19.823	2763.3	529.7		63.7	88.1
95.0	19.823	2775.0	518.0		62.9	87.4
100.0	19.823	2780.9	512.1		62.6	87.0
*105.0	19.823	2802.5	490.5		61.2	85.7
110.0	19.823	2841.8	451.2		58.8	83.1
115.0	19.823	2879.0	414.0		56.6	80.4
*120.0	19.823	2907.3	385.7		55.1	78.3
125.0	19.823	2945.7	347.3		52.8	75.5
130.0	19.823	2982.2	310.8		50.4	72.8
*135.0	19.823	2973.3	319.7		51.0	73.4
140.0	19.823	2982.5	310.5		50.4	72.8
145.0	19.823	3044.9	248.1		46.2	67.7
*150.0	19.823	3089.2	203.8		43.0	63.8
155.0	19.823	3071.8	221.2		44.3	65.4
160.0	19.823	3007.1	285.9		48.8	70.8
*165.0	19.823	2864.3	428.7		57.5	81.5
170.0	19.823	2854.5	438.5		58.0	82.2
175.0	19.823	2784.4	508.6		62.3	86.8
*180.0	19.823	2722.3	570.7		66.0	90.2
185.0	19.823	2813.7	479.3		60.4	85.0
190.0	19.823	2822.1	470.9		59.9	84.5
*195.0	19.823	2853.7	439.3		58.1	82.2

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<u>Azimuth</u>	<u>ERP (dBk)</u>	Terrain Average		Radiation Distance to	Distance to
		<u>Meters AMSL</u>	<u>Meters HAAT</u>	Center F(50,50) <u>70 dBu</u>	
200.0	19.823	2872.3	420.7	57.0	80.9
205.0	19.823	2843.7	449.3	58.6	83.0
*210.0	19.823	2775.1	517.9	62.9	87.4
215.0	19.823	2667.3	625.7	68.2	92.4
220.0	19.823	2608.1	684.9	70.4	94.6
*225.0	19.823	2630.9	662.1	69.6	93.8
230.0	19.823	2639.2	653.8	69.3	93.4
235.0	19.823	2741.1	551.9	65.0	89.3
*240.0	19.823	2860.6	432.4	57.7	81.7
245.0	19.823	2889.3	403.7	56.1	79.6
250.0	19.823	2807.5	485.5	60.8	85.4
*255.0	19.823	2725.5	567.5	65.8	90.1
260.0	19.823	2671.5	621.5	68.1	92.2
265.0	19.823	2652.0	641.0	68.8	93.0
*270.0	19.823	2612.9	680.1	70.2	94.4
275.0	19.823	2545.4	747.6	72.6	97.1
280.0	19.823	2478.9	814.1	74.7	99.6
*285.0	19.823	2426.2	866.8	76.2	101.5
290.0	19.823	2398.6	894.4	76.8	102.4
295.0	19.823	2352.8	940.2	77.8	103.7
*300.0	19.823	2337.0	956.0	78.2	104.2
305.0	19.823	2355.9	937.1	77.8	103.7
310.0	19.823	2368.2	924.8	77.5	103.3
*315.0	19.823	2394.4	898.6	76.9	102.6
320.0	19.823	2441.7	851.3	75.7	101.0
325.0	19.823	2432.8	860.2	76.0	101.3
*330.0	19.823	2429.5	863.5	76.1	101.4
335.0	19.823	2431.3	861.7	76.0	101.4
340.0	19.823	2434.2	858.8	75.9	101.3
*345.0	19.823	2433.4	859.6	76.0	101.3
350.0	19.823	2437.5	855.5	75.9	101.1
355.0	19.823	<u>2462.7</u>	<u>830.3</u>	75.2	100.2
*Average of 24 =		2682.0	611.0		