

**Engineering Statement**

**In Support of an**

**Application for a Construction Permit**

**KLSZ, Van Buren, Arkansas**

**Channel 274C2 Contour/Terrain Study**

**Reference Coordinates:**  
**North Latitude: 35-26-51**  
**West Longitude: 94-21-54**

ERP = 17.0 kW Ave. Elev. 3 to 16 km		FM - 2-6 Tables Effective Antenna Height		F(50-50) Distance to 60 dBu Contour	F(50-50) Distance to 70 dBu Contour
Azimuth °T.	Meters AMSL	Meters AAT	ERP (dBk)	km	km
<b>*0.0</b>	<b>235.6</b>	<b>99.7</b>	<b>12.304</b>	<b>36.0</b>	<b>21.2</b>
5.0	235.7	99.6	12.304	36.0	21.2
10.0	230.1	105.2	12.304	36.8	21.8
15.0	236.0	99.3	12.304	35.9	21.2
20.0	230.7	104.6	12.304	36.8	21.7
25.0	227.1	108.2	12.304	37.3	22.1
30.0	221.8	113.5	12.304	38.1	22.6
35.0	206.8	128.5	12.304	39.9	23.8
40.0	190.6	144.7	12.304	42.0	25.0
<b>*45.0</b>	<b>184.8</b>	<b>150.5</b>	<b>12.304</b>	<b>42.7</b>	<b>25.5</b>
50.0	189.1	146.2	12.304	42.2	25.2
55.0	187.4	147.9	12.304	42.4	25.3
60.0	175.8	159.5	12.304	43.8	26.2
65.0	169.7	165.6	12.304	44.5	26.6
70.0	159.7	175.6	12.304	45.6	27.3
75.0	147.1	188.2	12.304	46.7	28.1
80.0	141.0	194.3	12.304	47.2	28.6
85.0	140.4	194.9	12.304	47.2	28.6
<b>*90.0</b>	<b>139.9</b>	<b>195.4</b>	<b>12.304</b>	<b>47.3</b>	<b>28.6</b>
95.0	138.3	197.0	12.304	47.4	28.8
100.0	137.2	198.1	12.304	47.5	28.8
105.0	135.9	199.4	12.304	47.6	28.9
110.0	132.6	202.7	12.304	47.9	29.2
115.0	132.1	203.2	12.304	47.9	29.2
120.0	129.3	206.0	12.304	48.1	29.4
125.0	126.5	208.8	12.304	48.3	29.6
130.0	123.5	211.8	12.304	48.6	29.8
<b>*135.0</b>	<b>122.1</b>	<b>213.2</b>	<b>12.304</b>	<b>48.7</b>	<b>29.9</b>
140.0	121.9	213.4	12.304	48.7	29.9
145.0	121.9	213.4	12.304	48.7	29.9
150.0	121.9	213.4	12.304	48.7	29.9
155.0	124.7	210.6	12.304	48.5	29.7

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ERP = 17.0 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	60 dBu Contour	70 dBu Contour
°T.	Meters AMSL	Meters AAT	(dBk)	km	km
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160.0	129.8	205.5	12.304	48.1	29.4
165.0	132.7	202.6	12.304	47.8	29.1
170.0	137.5	197.8	12.304	47.5	28.8
175.0	140.1	195.2	12.304	47.3	28.6
<b>*180.0</b>	<b>141.7</b>	<b>193.6</b>	<b>12.304</b>	<b>47.1</b>	<b>28.5</b>
185.0	143.7	191.6	12.304	47.0	28.4
190.0	151.4	183.9	12.304	46.3	27.9
195.0	153.1	182.2	12.304	46.2	27.8
200.0	152.0	183.3	12.304	46.3	27.8
205.0	147.3	188.0	12.304	46.7	28.1
210.0	140.3	195.0	12.304	47.2	28.6
215.0	130.0	205.3	12.304	48.1	29.3
220.0	125.6	209.7	12.304	48.4	29.7
<b>*225.0</b>	<b>124.0</b>	<b>211.3</b>	<b>12.304</b>	<b>48.5</b>	<b>29.8</b>
230.0	123.2	212.1	12.304	48.6	29.8
235.0	123.7	211.6	12.304	48.6	29.8
240.0	127.3	208.0	12.304	48.3	29.5
245.0	131.0	204.3	12.304	48.0	29.3
250.0	132.7	202.6	12.304	47.8	29.2
255.0	135.9	199.4	12.304	47.6	28.9
260.0	142.4	192.9	12.304	47.1	28.5
265.0	155.9	179.4	12.304	45.9	27.6
<b>*270.0</b>	<b>173.7</b>	<b>161.6</b>	<b>12.304</b>	<b>44.1</b>	<b>26.3</b>
275.0	189.6	145.7	12.304	42.1	25.1
280.0	199.8	135.5	12.304	40.8	24.3
285.0	214.0	121.3	12.304	39.1	23.2
290.0	207.2	128.1	12.304	39.9	23.8
295.0	204.0	131.3	12.304	40.3	24.0
300.0	196.4	138.9	12.304	41.3	24.6
305.0	167.6	167.7	12.304	44.8	26.8
310.0	153.6	181.7	12.304	46.1	27.7
<b>*315.0</b>	<b>160.3</b>	<b>175.0</b>	<b>12.304</b>	<b>45.5</b>	<b>27.3</b>
320.0	175.0	160.3	12.304	43.9	26.2
325.0	185.1	150.2	12.304	42.7	25.5
330.0	197.0	138.3	12.304	41.2	24.6
335.0	207.5	127.8	12.304	39.9	23.7
340.0	221.9	113.4	12.304	38.0	22.6
345.0	228.4	106.9	12.304	37.1	21.9
350.0	225.4	109.9	12.304	37.6	22.2
355.0	235.2	100.1	12.304	36.0	21.2
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Avg. of 8 = 160.3 M		175.0 M			

\* Only eight cardinal radials used in terrain averaging