

**Engineering Statement**

**In Support of an**

**Application for a Construction Permit**

**WMLV, Stonewall, Mississippi**

**Channel 295A Contour/Terrain Study**

**Reference Coordinates:**  
**North Latitude: 32-19-30**  
**West Longitude: 88-41-17**

Azimuth °T.	ERP = 2.3 kW Ave. Elev. 3 to 16 km	FM - 2-6 Tables Effective Antenna Height	ERP (dBk)	F(50-50) Distance to 60 dBu Contour	F(50-50) Distance to 70 dBu Contour
	Meters AMSL	Meters AAT		km	km
<b>*0.0</b>	<b>119.2</b>	<b>169.7</b>	<b>3.617</b>	<b>28.8</b>	<b>16.7</b>
5.0	120.0	168.9	3.617	28.7	16.7
10.0	114.8	174.1	3.617	29.1	16.9
15.0	111.8	177.1	3.617	29.4	17.1
20.0	109.8	179.1	3.617	29.5	17.2
25.0	117.8	171.1	3.617	28.9	16.8
30.0	131.3	157.6	3.617	27.8	16.0
35.0	134.0	154.9	3.617	27.6	15.8
40.0	132.5	156.4	3.617	27.7	15.9
<b>*45.0</b>	<b>133.4</b>	<b>155.5</b>	<b>3.617</b>	<b>27.7</b>	<b>15.9</b>
50.0	138.2	150.7	3.617	27.3	15.6
55.0	145.3	143.6	3.617	26.7	15.1
60.0	153.3	135.6	3.617	26.0	14.7
65.0	154.4	134.5	3.617	25.9	14.6
70.0	153.7	135.2	3.617	26.0	14.6
75.0	151.3	137.6	3.617	26.2	14.8
80.0	147.9	141.0	3.617	26.5	15.0
85.0	145.4	143.5	3.617	26.7	15.1
<b>*90.0</b>	<b>144.8</b>	<b>144.1</b>	<b>3.617</b>	<b>26.7</b>	<b>15.2</b>
95.0	145.2	143.7	3.617	26.7	15.1
100.0	141.1	147.8	3.617	27.0	15.4
105.0	138.0	150.9	3.617	27.3	15.6
110.0	136.6	152.3	3.617	27.4	15.7
115.0	139.0	149.9	3.617	27.2	15.5
120.0	135.9	153.0	3.617	27.5	15.7
125.0	132.5	156.4	3.617	27.7	15.9
130.0	133.4	155.5	3.617	27.7	15.9
<b>*135.0</b>	<b>134.7</b>	<b>154.2</b>	<b>3.617</b>	<b>27.6</b>	<b>15.8</b>
140.0	133.0	155.9	3.617	27.7	15.9
145.0	134.4	154.5	3.617	27.6	15.8
150.0	134.2	154.7	3.617	27.6	15.8
155.0	129.7	159.2	3.617	28.0	16.1

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ERP = 2.3 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	133.7	155.2	3.617	27.6	15.9
165.0	144.4	144.5	3.617	26.8	15.2
170.0	144.0	144.9	3.617	26.8	15.2
175.0	151.4	137.5	3.617	26.2	14.8
<b>*180.0</b>	<b>156.6</b>	<b>132.3</b>	<b>3.617</b>	<b>25.8</b>	<b>14.5</b>
185.0	157.2	131.7	3.617	25.7	14.4
190.0	149.5	139.4	3.617	26.4	14.9
195.0	142.7	146.2	3.617	26.9	15.3
200.0	136.0	152.9	3.617	27.4	15.7
205.0	127.4	161.5	3.617	28.1	16.2
210.0	113.5	175.4	3.617	29.2	17.0
215.0	106.5	182.4	3.617	29.8	17.4
220.0	105.4	183.5	3.617	29.8	17.4
<b>*225.0</b>	<b>104.3</b>	<b>184.6</b>	<b>3.617</b>	<b>29.9</b>	<b>17.5</b>
230.0	106.2	182.7	3.617	29.8	17.4
235.0	106.4	182.5	3.617	29.8	17.4
240.0	107.8	181.1	3.617	29.7	17.3
245.0	110.3	178.6	3.012	28.6	16.6
250.0	110.3	178.6	2.408	27.7	15.9
255.0	108.6	180.3	2.203	27.5	15.8
260.0	112.7	176.2	1.999	26.9	15.4
265.0	109.5	179.4	1.999	27.1	15.6
<b>*270.0</b>	<b>108.1</b>	<b>180.8</b>	<b>1.999</b>	<b>27.2</b>	<b>15.6</b>
275.0	105.8	183.1	2.203	27.7	15.9
280.0	105.6	183.3	2.408	28.0	16.1
285.0	111.0	177.9	3.012	28.5	16.5
290.0	113.7	175.2	3.617	29.2	17.0
295.0	114.1	174.8	3.617	29.2	17.0
300.0	115.7	173.2	3.617	29.1	16.9
305.0	116.1	172.8	3.617	29.0	16.9
310.0	111.1	177.8	3.617	29.4	17.1
<b>*315.0</b>	<b>97.8</b>	<b>191.1</b>	<b>3.617</b>	<b>30.4</b>	<b>17.7</b>
320.0	93.7	195.2	3.617	30.7	17.9
325.0	92.6	196.3	3.617	30.8	18.0
330.0	96.8	192.1	3.617	30.5	17.8
335.0	103.0	185.9	3.617	30.0	17.5
340.0	108.3	180.6	3.617	29.6	17.3
345.0	110.9	178.0	3.617	29.4	17.1
350.0	115.6	173.3	3.617	29.1	16.9
355.0	118.6	170.3	3.617	28.8	16.7
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Avg. of 8 = 124.9 M		164.0 M			

\* Only eight cardinal radials used in terrain averaging