

## Engineering Statement

### In Support of an Application for a Construction Permit WDAI, Pawley's Island, SC

#### WDAI Class C3 Terrain/Contour Study

<u>Azimuth</u>	<u>ERP (dBk)</u>	<u>Terrain Average</u>		<u>Radiation</u>	<u>Distance to</u>	<u>Distance to</u>
		<u>Meters AMSL</u>	<u>Meters HAAT</u>	<u>Center</u>	<u>F(50,50)</u>	<u>F(50,50)</u>
				<u>Meters</u>	<u>70 dBu</u>	<u>60 dBu</u>
<b>*0.0</b>	<b>10.000</b>	<b>0.8</b>	<b>157.7</b>		<b>23.1</b>	<b>39.2</b>
5.0	10.000	0.5	158.0		23.1	39.2
10.0	10.000	1.7	156.8		23.1	39.1
15.0	10.000	2.6	155.9		23.0	38.9
20.0	10.000	1.8	156.7		23.1	39.0
25.0	10.000	2.2	156.3		23.0	39.0
30.0	10.000	2.8	155.7		23.0	38.9
35.0	10.000	3.6	154.9		22.9	38.8
40.0	10.000	3.8	154.7		22.9	38.8
<b>*45.0</b>	<b>10.000</b>	<b>3.8</b>	<b>154.7</b>		<b>22.9</b>	<b>38.8</b>
50.0	10.000	4.4	154.1		22.9	38.7
55.0	10.000	3.6	154.9		22.9	38.8
60.0	10.000	2.8	155.7		23.0	38.9
65.0	10.000	2.1	156.4		23.0	39.0
70.0	10.000	1.8	156.7		23.1	39.0
75.0	10.000	1.6	156.9		23.1	39.1
80.0	10.000	1.2	157.3		23.1	39.1
85.0	10.000	0.8	157.7		23.1	39.2
<b>*90.0</b>	<b>10.000</b>	<b>0.5</b>	<b>158.0</b>		<b>23.1</b>	<b>39.2</b>
95.0	10.000	0.4	158.1		23.1	39.2
100.0	10.000	0.3	158.2		23.2	39.2
105.0	10.000	0.2	158.3		23.2	39.2
110.0	10.000	0.2	158.3		23.2	39.2
115.0	10.000	0.1	158.4		23.2	39.2
120.0	10.000	0.1	158.4		23.2	39.2
125.0	10.000	0.1	158.4		23.2	39.2
130.0	10.000	0.1	158.4		23.2	39.2
<b>*135.0</b>	<b>10.000</b>	<b>0.1</b>	<b>158.4</b>		<b>23.2</b>	<b>39.2</b>
140.0	10.000	0.1	158.4		23.2	39.2
145.0	10.000	0.0	158.5		23.2	39.2
150.0	10.000	0.0	158.5		23.2	39.2
155.0	10.000	0.0	158.5		23.2	39.2
160.0	10.000	0.1	158.4		23.2	39.2
165.0	10.000	0.1	158.4		23.2	39.2
170.0	10.000	0.1	158.4		23.2	39.2
175.0	10.000	0.3	158.2		23.2	39.2
<b>*180.0</b>	<b>10.000</b>	<b>0.5</b>	<b>158.0</b>		<b>23.1</b>	<b>39.2</b>
185.0	10.000	0.7	157.8		23.1	39.2
190.0	10.000	1.1	157.4		23.1	39.1
195.0	10.000	1.9	156.6		23.0	39.0

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<u>Azimuth</u>	<u>ERP (dBk)</u>	<u>Terrain Average</u>		<u>Radiation</u>	<u>Distance to</u>	<u>Distance to</u>
		<u>Meters AMSL</u>	<u>Meters HAAT</u>	<u>Center</u>	<u>F(50,50)</u>	<u>F(50,50)</u>
					<u>70 dBu</u>	<u>60 dBu</u>
200.0	10.000	2.9	155.6		23.0	38.9
205.0	10.000	5.3	153.2		22.8	38.6
210.0	10.000	4.7	153.8		22.9	38.7
215.0	10.000	1.3	157.2		23.1	39.1
220.0	10.000	0.3	158.2		23.2	39.2
<b>*225.0</b>	<b>10.000</b>	<b>0.7</b>	<b>157.8</b>		<b>23.1</b>	<b>39.2</b>
230.0	10.000	1.8	156.7		23.1	39.0
235.0	10.000	2.7	155.8		23.0	38.9
240.0	10.000	1.7	156.8		23.1	39.1
245.0	10.000	1.9	156.6		23.0	39.0
250.0	10.000	2.6	155.9		23.0	38.9
255.0	10.000	2.7	155.8		23.0	38.9
260.0	10.000	2.8	155.7		23.0	38.9
265.0	10.000	2.5	156.0		23.0	39.0
<b>*270.0</b>	<b>10.000</b>	<b>3.2</b>	<b>155.3</b>		<b>23.0</b>	<b>38.9</b>
275.0	10.000	3.0	155.5		23.0	38.9
280.0	10.000	2.8	155.7		23.0	38.9
285.0	10.000	2.7	155.8		23.0	38.9
290.0	10.000	2.4	156.1		23.0	39.0
295.0	10.000	2.7	155.8		23.0	38.9
300.0	10.000	1.6	156.9		23.1	39.1
305.0	10.000	1.3	157.2		23.1	39.1
310.0	10.000	2.1	156.4		23.0	39.0
<b>*315.0</b>	<b>10.000</b>	<b>3.4</b>	<b>155.1</b>		<b>22.9</b>	<b>38.8</b>
320.0	10.000	3.4	155.1		22.9	38.9
325.0	10.000	2.3	156.2		23.0	39.0
330.0	10.000	1.2	157.3		23.1	39.1
335.0	10.000	1.0	157.5		23.1	39.1
340.0	10.000	1.3	157.2		23.1	39.1
345.0	10.000	1.6	156.9		23.1	39.1
350.0	10.000	1.6	156.9		23.1	39.1
355.0	10.000	0.6	157.9		23.1	39.2
<b>*Average of 8 radials =</b>		<b>1.6</b>	<b>156.9</b>			