

Engineering Statement

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

WBZF Protected/WDAI Interfering FM Overlap Study

WBZF
Channel = 253A
Max ERP = 2.3 kW
RCAMSL = 250.9 M
N. Lat = 34 27 54
W. Lng = 80 05 45

WDAI BLH19980731KA
Channel = 253C3
Max ERP = 10 kW
RCAMSL = 158.5 M
N. Lat = 33 35 27
W. Lng = 79 02 55

Protected
60 dBu

Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
000.0	002.3000	0151.6	027.3	322.6	010.0000	0155.6	157.4	29.7
010.0	002.3000	0156.0	027.7	324.0	010.0000	0155.9	154.5	30.2
020.0	002.3000	0162.9	028.2	325.3	010.0000	0156.3	151.0	30.8
030.0	002.3000	0169.7	028.8	326.4	010.0000	0156.6	147.0	31.4
040.0	002.3000	0169.7	028.8	327.1	010.0000	0156.7	142.4	32.3
050.0	002.3000	0172.4	029.0	327.6	010.0000	0156.8	137.5	33.2
060.0	002.3000	0178.4	029.5	327.8	010.0000	0156.9	132.4	34.2
070.0	002.3000	0186.6	030.1	327.8	010.0000	0156.9	127.2	35.2
080.0	002.3000	0178.4	029.5	326.8	010.0000	0156.7	122.5	36.1
090.0	002.3000	0173.5	029.1	325.4	010.0000	0156.3	118.2	36.9
100.0	002.3000	0178.7	029.5	323.9	010.0000	0155.9	114.1	37.7
110.0	002.3000	0186.2	030.0	322.0	010.0000	0155.5	110.5	38.4
120.0	002.3000	0193.2	030.6	319.6	010.0000	0155.0	107.8	39.0
130.0	002.3000	0186.8	030.1	316.8	010.0000	0154.8	107.1	39.1
140.0	002.3000	0182.3	029.7	314.0	010.0000	0155.3	107.4	39.1
150.0	002.3000	0183.5	029.8	311.3	010.0000	0156.1	108.5	38.9
160.0	002.3000	0181.2	029.7	308.9	010.0000	0156.6	110.9	38.4
170.0	002.3000	0177.1	029.4	307.0	010.0000	0156.9	114.2	37.7
180.0	002.3000	0173.3	029.1	305.4	010.0000	0157.2	118.3	37.0
190.0	002.3000	0167.3	028.6	304.5	010.0000	0157.3	122.9	36.1
200.0	002.3000	0166.4	028.5	303.8	010.0000	0157.4	127.6	35.2
210.0	002.3000	0165.2	028.4	303.5	010.0000	0157.4	132.5	34.2
220.0	002.3000	0161.9	028.2	303.7	010.0000	0157.4	137.4	33.3
230.0	002.3000	0158.7	027.9	304.2	010.0000	0157.3	142.2	32.3
240.0	002.3000	0158.4	027.9	305.0	010.0000	0157.2	146.7	31.5
250.0	002.3000	0154.9	027.6	306.0	010.0000	0157.1	150.7	30.8
260.0	002.3000	0145.2	026.8	307.4	010.0000	0156.8	153.9	30.3
270.0	002.3000	0142.6	026.6	308.7	010.0000	0156.6	156.9	29.9
280.0	002.3000	0145.8	026.9	310.0	010.0000	0156.4	159.7	29.4
290.0	002.3000	0138.3	026.3	311.6	010.0000	0156.0	161.1	29.1
300.0	002.3000	0145.6	026.9	313.1	010.0000	0155.5	163.0	28.8
310.0	002.3000	0151.7	027.3	314.7	010.0000	0155.1	164.1	28.5
320.0	002.3000	0148.5	027.1	316.4	010.0000	0154.8	163.9	28.6
330.0	002.3000	0144.9	026.8	318.0	010.0000	0154.8	162.9	28.8
340.0	002.3000	0134.5	026.0	319.5	010.0000	0155.0	160.8	29.1
350.0	002.3000	0143.4	026.7	321.0	010.0000	0155.3	159.5	29.4