

**Engineering Statement  
In Support of an  
Amendment to a Pending Application**

**WFSF, Marion, South Carolina**

**WFSF Protected/WSSL (Application) Interfering FM Overlap Study**

WFSF  
Channel = 263C3  
Max ERP = 25 kW  
RCAMSL = 121.6 M  
N. Lat = 34 23 26  
W. Lng = 7 935 25

WSSLFM  
Channel = 263C  
Max ERP = 100 kW  
RCAMSL = 808 M  
N. Lat = 34 34 18  
W. Lng = 82 06 44

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	025.0000	0094.5	038.1	084.8	100.0000	0594.2	231.9	34.0
010.0	025.0000	0089.8	037.3	085.2	100.0000	0593.9	238.3	32.9
020.0	025.0000	0086.2	036.6	085.9	100.0000	0593.4	244.2	31.9
030.0	025.0000	0087.2	036.8	086.5	100.0000	0593.0	250.0	31.0
040.0	025.0000	0086.8	036.7	087.4	100.0000	0592.6	255.1	30.2
050.0	025.0000	0087.4	036.8	088.4	100.0000	0592.5	259.6	29.4
060.0	025.0000	0088.6	037.1	090.5	100.0000	0592.9	263.6	28.7
070.0	025.0000	0090.3	037.4	090.8	100.0000	0593.0	266.8	28.0
080.0	025.0000	0093.5	038.0	092.1	100.0000	0593.3	269.3	27.5
090.0	025.0000	0095.1	038.2	093.4	100.0000	0595.3	270.7	27.3
100.0	025.0000	0096.3	038.5	094.9	100.0000	0597.8	271.0	27.3
110.0	025.0000	0094.8	038.2	096.3	100.0000	0600.0	269.8	27.5
120.0	025.0000	0098.9	038.9	097.7	100.0000	0601.7	268.5	27.8
130.0	025.0000	0096.9	038.6	099.0	100.0000	0602.9	265.3	28.4
140.0	025.0000	0099.6	039.0	100.3	100.0000	0603.4	261.9	29.1
150.0	025.0000	0099.8	039.0	101.4	100.0000	0603.1	257.3	29.9
160.0	025.0000	0101.4	039.3	102.4	100.0000	0602.6	252.1	30.8
170.0	025.0000	0105.4	039.9	103.3	100.0000	0602.0	246.4	31.6
180.0	025.0000	0108.5	040.4	104.0	100.0000	0601.6	239.9	32.7
190.0	025.0000	0109.1	040.5	104.3	100.0000	0601.3	233.0	33.9
200.0	025.0000	0108.6	040.4	104.3	100.0000	0601.3	225.9	35.1
210.0	025.0000	0105.4	039.9	103.9	100.0000	0601.6	219.1	36.2
220.0	025.0000	0106.6	040.1	103.3	100.0000	0602.0	212.4	37.4
230.0	025.0000	0108.0	040.3	102.3	100.0000	0602.6	206.3	38.4
240.0	025.0000	0107.9	040.3	101.0	100.0000	0603.3	201.1	39.4
250.0	022.3872	0102.4	038.6	099.1	100.0000	0603.0	198.4	39.9
260.0	014.4544	0102.3	035.1	097.0	100.0000	0600.8	198.9	39.8
270.0	012.5000	0106.7	034.7	095.2	100.0000	0598.4	198.0	39.9
280.0	012.5000	0107.4	034.8	093.5	100.0000	0595.3	197.9	39.9
290.0	014.4544	0107.7	035.9	091.7	100.0000	0593.2	197.9	39.9
300.0	022.3872	0106.6	039.2	090.5	100.0000	0592.9	197.5	40.0
310.0	025.0000	0104.1	039.7	087.8	100.0000	0592.5	201.0	39.3
320.0	025.0000	0100.1	039.1	086.6	100.0000	0592.9	206.4	38.3
330.0	025.0000	0097.7	038.7	085.7	100.0000	0593.6	212.3	37.3
340.0	025.0000	0094.4	038.1	085.2	100.0000	0593.9	218.8	36.2
350.0	025.0000	0093.8	038.0	084.9	100.0000	0594.1	225.3	35.1