

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

**WFSF, Marion, South Carolina**

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

WSSLFM  
Channel = 263C  
Max ERP = 100 kW  
RCAMSL = 806 M  
N. Lat = 34 34 19  
W. Lng = 82 06 41

WFSF  
Channel = 263C3  
Max ERP = 25 kW  
RCAMSL = 121.6 M  
N. Lat = 34 23 26  
W. Lng = 79 35 25

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	100.0000	0588.4	091.4	296.6	019.5286	0106.9	256.0	14.4
010.0	100.0000	0596.0	091.7	298.0	020.6646	0106.8	241.3	16.8
020.0	100.0000	0596.5	091.7	298.8	021.3572	0106.7	225.7	19.7
030.0	100.0000	0599.7	091.8	299.0	021.5413	0106.7	209.8	22.6
040.0	100.0000	0605.1	092.0	298.5	021.0730	0106.7	194.0	25.0
050.0	100.0000	0604.6	092.0	296.9	019.7460	0106.9	178.9	27.5
060.0	100.0000	0607.3	092.1	294.2	017.5747	0107.2	165.1	29.5
070.0	100.0000	0611.5	092.3	290.2	014.6060	0107.6	153.4	30.7
080.0	100.0000	0599.1	091.8	284.9	013.4302	0107.9	145.5	31.7
090.0	100.0000	0590.8	091.5	278.6	012.5000	0107.2	141.5	32.1
100.0	100.0000	0601.5	091.9	272.1	012.5000	0106.7	141.3	32.1
110.0	100.0000	0596.2	091.7	266.0	013.2608	0105.7	146.2	31.4
120.0	100.0000	0600.3	091.8	260.8	014.2872	0102.8	154.7	30.2
130.0	100.0000	0609.1	092.2	256.8	016.7807	0102.2	166.3	28.9
140.0	100.0000	0603.7	092.0	254.3	018.7904	0102.0	180.5	26.8
150.0	100.0000	0597.6	091.7	252.9	019.9369	0102.1	195.9	24.3
160.0	100.0000	0595.4	091.6	252.4	020.3396	0102.0	211.9	21.9
170.0	100.0000	0611.0	092.2	252.5	020.2343	0102.0	227.9	19.0
180.0	100.0000	0617.0	092.5	253.4	019.5235	0102.1	243.7	16.0
190.0	100.0000	0622.2	092.7	254.7	018.4170	0102.0	258.8	13.5
200.0	100.0000	0618.5	092.5	256.6	016.9923	0102.1	272.6	10.9
210.0	100.0000	0612.0	092.3	258.7	015.3971	0102.2	285.0	08.7
220.0	100.0000	0611.4	092.2	261.0	014.2493	0103.0	296.1	06.8
230.0	100.0000	0605.1	092.0	263.5	013.7448	0104.8	305.3	05.3
240.0	100.0000	0611.0	092.2	266.2	013.2317	0105.8	313.1	04.1
250.0	100.0000	0604.3	092.0	268.9	012.7028	0106.5	318.6	03.2
260.0	100.0000	0596.1	091.7	271.7	012.5000	0106.8	322.0	02.6
270.0	100.0000	0592.7	091.5	274.6	012.5000	0106.6	323.7	02.4
280.0	100.0000	0585.7	091.3	277.4	012.5000	0107.0	323.2	02.5
290.0	100.0000	0575.9	090.9	280.2	012.5392	0107.4	320.6	02.9
300.0	100.0000	0572.1	090.7	283.0	013.0627	0107.8	316.4	03.6
310.0	100.0000	0570.2	090.6	285.6	013.5817	0107.9	310.3	04.6
320.0	100.0000	0570.2	090.6	288.2	014.0899	0107.8	302.5	05.9
330.0	100.0000	0559.1	090.1	290.5	014.8380	0107.6	292.6	07.6
340.0	100.0000	0563.9	090.3	292.8	016.4923	0107.4	281.7	09.6
350.0	100.0000	0575.7	090.9	294.9	018.0906	0107.1	269.5	11.8