

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

WFSF, Marion, South Carolina

WSSL (Application) Protected/WFSF Interfering FM Overlap Study

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

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	0589.4	091.4	296.6	019.5241	0106.9	256.1	14.3
010.0	100.0000	0597.7	091.7	298.0	020.6648	0106.8	241.4	16.8
020.0	100.0000	0598.1	091.7	298.8	021.3567	0106.7	225.8	19.7
030.0	100.0000	0601.7	091.9	299.0	021.5443	0106.7	209.9	22.6
040.0	100.0000	0606.6	092.1	298.5	021.0712	0106.7	194.0	25.0
050.0	100.0000	0606.3	092.1	296.9	019.7453	0106.9	178.9	27.5
060.0	100.0000	0609.0	092.2	294.2	017.5728	0107.2	165.1	29.5
070.0	100.0000	0613.2	092.3	290.2	014.6025	0107.6	153.4	30.7
080.0	100.0000	0600.6	091.8	284.8	013.4282	0107.9	145.5	31.7
090.0	100.0000	0592.8	091.5	278.6	012.5000	0107.2	141.5	32.1
100.0	100.0000	0603.4	091.9	272.1	012.5000	0106.7	141.3	32.1
110.0	100.0000	0598.3	091.8	266.0	013.2653	0105.7	146.2	31.4
120.0	100.0000	0602.3	091.9	260.8	014.2921	0102.8	154.8	30.2
130.0	100.0000	0611.1	092.2	256.8	016.7997	0102.2	166.4	28.9
140.0	100.0000	0605.6	092.0	254.2	018.8091	0102.0	180.5	26.8
150.0	100.0000	0599.3	091.8	252.8	019.9536	0102.1	196.0	24.3
160.0	100.0000	0597.6	091.7	252.4	020.3598	0102.0	211.9	21.9
170.0	100.0000	0613.6	092.3	252.5	020.2558	0102.0	228.0	18.9
180.0	100.0000	0619.0	092.5	253.3	019.5385	0102.1	243.8	16.0
190.0	100.0000	0624.5	092.7	254.7	018.4322	0102.0	258.9	13.5
200.0	100.0000	0620.1	092.6	256.5	017.0020	0102.1	272.7	10.9
210.0	100.0000	0613.8	092.3	258.7	015.4063	0102.2	285.2	08.7
220.0	100.0000	0613.5	092.3	261.0	014.2518	0103.0	296.2	06.7
230.0	100.0000	0607.2	092.1	263.5	013.7471	0104.8	305.4	05.3
240.0	100.0000	0612.8	092.3	266.2	013.2335	0105.8	313.2	04.0
250.0	100.0000	0606.2	092.1	268.9	012.7045	0106.4	318.7	03.1
260.0	100.0000	0598.2	091.7	271.7	012.5000	0106.8	322.2	02.6
270.0	100.0000	0594.7	091.6	274.6	012.5000	0106.6	323.8	02.4
280.0	100.0000	0587.9	091.4	277.4	012.5000	0107.0	323.4	02.5
290.0	100.0000	0577.9	090.9	280.2	012.5384	0107.4	320.8	02.8
300.0	100.0000	0574.1	090.8	283.0	013.0622	0107.8	316.5	03.6
310.0	100.0000	0572.2	090.7	285.6	013.5814	0107.9	310.4	04.6
320.0	100.0000	0572.6	090.7	288.2	014.0902	0107.8	302.6	05.8
330.0	100.0000	0561.3	090.2	290.5	014.8404	0107.6	292.7	07.5
340.0	100.0000	0565.6	090.4	292.8	016.4928	0107.4	281.8	09.6
350.0	100.0000	0577.7	090.9	294.9	018.0927	0107.1	269.6	11.8