

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

WFSF, Marion, South Carolina

WSEA Protected/WFSF Interfering FM Overlap Study

WSEA.A
Channel = 262C3
Max ERP = 12 kW
RCAMSL = 150 M
N. Lat = 33 47 06
W. Lng = 78 52 44

WFSF
Channel = 263C3
Max ERP = 25 kW
RCAMSL = 121.6 M
N. Lat = 342326
W. Lng = 793525

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
000.0	001.3387	0145.7	023.8	123.4	025.0000	0097.5	078.6	48.3
010.0	001.4200	0145.5	024.1	121.8	025.0000	0098.4	082.2	47.4
020.0	001.4200	0147.1	024.2	120.9	025.0000	0098.8	086.2	46.3
030.0	002.2499	0146.5	026.8	119.0	025.0000	0098.5	090.4	45.1
040.0	003.5643	0145.6	029.6	117.6	025.0000	0097.4	095.6	43.7
050.0	005.6472	0142.5	032.7	116.8	025.0000	0096.8	101.7	42.3
060.0	008.9580	0139.8	036.1	116.7	025.0000	0096.8	108.6	40.8
070.0	012.0000	0138.1	038.3	117.8	025.0000	0097.7	115.1	39.7
080.0	012.0000	0141.6	038.7	120.0	025.0000	0098.9	120.1	38.8
090.0	012.0000	0144.3	039.1	122.5	025.0000	0098.0	124.4	38.1
100.0	012.0000	0145.5	039.2	125.2	025.0000	0097.1	127.9	37.4
110.0	012.0000	0146.8	039.4	128.0	025.0000	0096.9	130.6	36.9
120.0	012.0000	0147.7	039.5	130.8	025.0000	0097.2	132.4	36.5
130.0	012.0000	0147.9	039.5	133.8	025.0000	0098.6	133.4	36.4
140.0	012.0000	0148.2	039.5	136.8	025.0000	0099.4	133.5	36.4
150.0	012.0000	0148.2	039.5	139.7	025.0000	0099.6	132.7	36.6
160.0	012.0000	0148.0	039.5	142.6	025.0000	0099.7	131.0	36.9
170.0	012.0000	0148.0	039.5	145.5	025.0000	0099.9	128.6	37.4
180.0	012.0000	0146.9	039.4	148.2	025.0000	0099.9	125.2	38.0
190.0	012.0000	0146.7	039.4	150.8	025.0000	0099.8	121.2	38.7
200.0	012.0000	0146.1	039.3	153.2	025.0000	0099.7	116.5	39.5
210.0	012.0000	0146.1	039.3	155.5	025.0000	0100.0	111.2	40.4
220.0	012.0000	0146.0	039.3	157.4	025.0000	0100.7	105.4	41.6
230.0	012.0000	0144.7	039.1	158.8	025.0000	0101.1	099.0	43.1
240.0	012.0000	0141.9	038.8	159.6	025.0000	0101.3	092.3	44.7
250.0	012.0000	0141.7	038.7	160.0	025.0000	0101.4	085.6	46.6
260.0	012.0000	0140.9	038.6	159.5	025.0000	0101.3	078.9	48.4
270.0	012.0000	0140.9	038.6	158.1	025.0000	0101.0	072.4	50.3
280.0	012.0000	0142.9	038.9	155.7	025.0000	0100.1	066.3	52.0
290.0	008.9580	0143.4	036.6	150.3	025.0000	0099.8	063.0	53.0
300.0	005.6472	0143.5	032.9	143.8	025.0000	0099.8	062.9	53.1
310.0	003.5643	0144.5	029.5	138.3	025.0000	0099.6	064.6	52.5
320.0	002.2499	0144.2	026.6	134.0	025.0000	0098.6	067.4	51.6
330.0	001.4200	0144.0	024.0	130.8	025.0000	0097.2	070.9	50.5
340.0	001.4200	0145.1	024.1	127.8	025.0000	0096.9	072.6	50.0
350.0	001.4200	0144.8	024.1	125.2	025.0000	0097.1	075.2	49.3