

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

WFSF, Marion, South Carolina

WFSF Protected/WSEA Interfering FM Overlap Study

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

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

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	025.0000	0094.5	038.1	328.4	001.5377	0144.0	124.0	27.4
010.0	025.0000	0089.8	037.3	330.7	001.4200	0144.1	119.5	27.9
020.0	025.0000	0086.2	036.6	332.7	001.4200	0144.3	114.6	28.8
030.0	025.0000	0087.2	036.8	334.8	001.4200	0144.6	109.7	29.8
040.0	025.0000	0086.8	036.7	336.5	001.4200	0144.7	104.1	31.0
050.0	025.0000	0087.4	036.8	337.9	001.4200	0144.6	098.2	32.5
060.0	025.0000	0088.6	037.1	338.9	001.4200	0144.8	092.0	34.2
070.0	025.0000	0090.3	037.4	339.3	001.4200	0144.9	085.6	36.1
080.0	025.0000	0093.5	038.0	339.2	001.4200	0144.9	079.0	38.0
090.0	025.0000	0095.1	038.2	338.0	001.4200	0144.6	072.5	40.0
100.0	025.0000	0096.3	038.5	335.5	001.4200	0144.7	066.6	41.9
110.0	025.0000	0094.8	038.2	331.4	001.4200	0144.1	061.8	43.5
120.0	025.0000	0098.9	038.9	326.4	001.7005	0144.2	057.5	45.9
130.0	025.0000	0096.9	038.6	319.7	002.2798	0144.2	055.7	47.8
140.0	025.0000	0099.6	039.0	312.8	003.1709	0144.7	055.2	49.5
150.0	025.0000	0099.8	039.0	306.1	004.3269	0143.9	057.0	50.1
160.0	025.0000	0101.4	039.3	300.3	005.5816	0143.5	060.4	49.9
170.0	025.0000	0105.4	039.9	295.6	007.0148	0143.4	065.1	49.3
180.0	025.0000	0108.5	040.4	292.4	008.0891	0143.4	071.0	48.0
190.0	025.0000	0109.1	040.5	290.8	008.6517	0143.4	077.8	46.2
200.0	025.0000	0108.6	040.4	290.4	008.7931	0143.4	084.8	44.1
210.0	025.0000	0105.4	039.9	291.1	008.5394	0143.4	091.7	42.0
220.0	025.0000	0106.6	040.1	292.1	008.2127	0143.4	098.5	40.0
230.0	025.0000	0108.0	040.3	293.5	007.7147	0143.4	105.1	38.1
240.0	025.0000	0107.9	040.3	295.4	007.0625	0143.4	111.1	36.4
250.0	022.3872	0102.4	038.6	298.3	006.1522	0143.5	115.4	35.0
260.0	014.4544	0102.3	035.1	301.8	005.2435	0143.5	117.4	33.9
270.0	012.5000	0106.7	034.7	304.2	004.7065	0143.7	120.7	32.8
280.0	012.5000	0107.4	034.8	306.7	004.2038	0144.0	123.8	31.8
290.0	014.4544	0107.7	035.9	309.1	003.7365	0144.4	127.2	30.6
300.0	022.3872	0106.6	039.2	311.5	003.3459	0144.7	132.1	29.2
310.0	025.0000	0104.1	039.7	314.4	002.9452	0144.8	133.5	28.4
320.0	025.0000	0100.1	039.1	317.4	002.5659	0144.6	132.9	27.9
330.0	025.0000	0097.7	038.7	320.3	002.2262	0144.1	131.7	27.5
340.0	025.0000	0094.4	038.1	323.0	001.9783	0143.6	129.5	27.4
350.0	025.0000	0093.8	038.0	325.8	001.7487	0144.1	127.1	27.4