

Engineering Statement

In Support of an

Application for a Construction Permit WZAT-FM, Savannah, Georgia

WPNG Protected/WZAT Interfering FM Overlap Study

WPNG BLH20011009ABD
Channel = 270C3
Max ERP = 12.9 kW
RCAMSL = 203 M
N. Lat = 31 19 36
W. Lng = 82 51 54

WZAT
Channel = 271C
Max ERP = 100 kW
RCAMSL = 605.4 M
N. Lat = 320337
W. Lng = 812040

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
030.0	007.4314	0137.3	034.3	248.1	100.0000	0599.2	136.9	53.9
031.0	007.1291	0137.4	034.0	247.8	100.0000	0599.3	136.8	53.9
032.0	006.8330	0137.4	033.7	247.5	100.0000	0599.3	136.7	54.0
033.0	006.5433	0137.3	033.3	247.3	100.0000	0599.4	136.7	54.0
034.0	006.2597	0137.4	033.0	247.0	100.0000	0599.4	136.6	54.0
035.0	005.9825	0137.6	032.6	246.7	100.0000	0599.4	136.6	54.0
036.0	005.7116	0138.2	032.3	246.4	100.0000	0599.5	136.6	54.0
037.0	005.4469	0139.0	032.1	246.2	100.0000	0599.5	136.6	54.0
038.0	005.1885	0139.7	031.8	245.9	100.0000	0599.5	136.6	54.0
039.0	004.9364	0140.1	031.4	245.6	100.0000	0599.5	136.6	54.0
040.0	004.6906	0140.3	031.1	245.3	100.0000	0599.5	136.7	53.9
041.0	004.5623	0140.5	030.9	245.1	100.0000	0599.5	136.7	54.0
042.0	004.4359	0140.7	030.7	244.9	100.0000	0599.5	136.6	54.0
043.0	004.3112	0140.8	030.5	244.6	100.0000	0599.5	136.6	54.0
044.0	004.1883	0140.7	030.3	244.4	100.0000	0599.5	136.6	54.0
045.0	004.0671	0140.5	030.1	244.1	100.0000	0599.5	136.7	54.0
046.0	003.9478	0140.6	029.9	243.9	100.0000	0599.5	136.7	54.0
047.0	003.8302	0141.0	029.7	243.7	100.0000	0599.5	136.7	54.0
048.0	003.7144	0141.6	029.5	243.5	100.0000	0599.5	136.7	54.0
049.0	003.6004	0142.4	029.4	243.2	100.0000	0599.5	136.7	54.0
050.0	003.4882	0143.4	029.3	243.0	100.0000	0599.5	136.7	54.0
051.0	003.4280	0144.5	029.3	242.8	100.0000	0599.5	136.6	54.0
052.0	003.3685	0145.5	029.2	242.6	100.0000	0599.5	136.6	54.0
053.0	003.3094	0146.2	029.2	242.4	100.0000	0599.5	136.5	54.0
054.0	003.2509	0146.7	029.1	242.2	100.0000	0599.5	136.5	54.0
055.0	003.1928	0147.4	029.1	241.9	100.0000	0599.5	136.5	54.0
056.0	003.1353	0148.1	029.0	241.7	100.0000	0599.5	136.5	54.0
057.0	003.0784	0149.0	029.0	241.5	100.0000	0599.5	136.5	54.0
058.0	003.0219	0149.8	028.9	241.3	100.0000	0599.5	136.6	54.0
059.0	002.9660	0150.6	028.9	241.1	100.0000	0599.5	136.6	54.0
060.0	002.9106	0151.4	028.8	240.9	100.0000	0599.5	136.6	54.0
061.0	002.9106	0152.1	028.9	240.7	100.0000	0599.5	136.6	54.0
062.0	002.9106	0152.8	028.9	240.5	100.0000	0599.5	136.5	54.0
063.0	002.9106	0153.3	029.0	240.2	100.0000	0599.5	136.5	54.0

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Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
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064.0	002.9106	0153.7	029.0	240.0	100.0000	0599.5	136.5	54.0
065.0	002.9106	0154.1	029.0	239.8	100.0000	0599.5	136.5	54.0
066.0	002.9106	0154.7	029.1	239.6	100.0000	0599.5	136.5	54.0
067.0	002.9106	0155.2	029.1	239.4	100.0000	0599.5	136.5	54.0
068.0	002.9106	0155.6	029.2	239.2	100.0000	0599.5	136.6	54.0
069.0	002.9106	0155.8	029.2	239.0	100.0000	0599.5	136.7	54.0
070.0	002.9106	0156.2	029.2	238.7	100.0000	0599.5	136.7	54.0
071.0	002.9660	0156.6	029.4	238.5	100.0000	0599.5	136.7	54.0
072.0	003.0219	0157.0	029.5	238.3	100.0000	0599.4	136.6	54.0
073.0	003.0784	0157.3	029.7	238.1	100.0000	0599.4	136.6	54.0
074.0	003.1353	0157.7	029.9	237.8	100.0000	0599.4	136.6	54.0
075.0	003.1928	0158.0	030.0	237.6	100.0000	0599.4	136.6	54.0
076.0	003.2509	0158.3	030.2	237.4	100.0000	0599.4	136.6	54.0
077.0	003.3094	0158.3	030.3	237.2	100.0000	0599.4	136.7	54.0
078.0	003.3685	0158.3	030.4	236.9	100.0000	0599.4	136.8	53.9
079.0	003.4280	0158.3	030.6	236.7	100.0000	0599.4	136.8	53.9
080.0	003.4882	0158.3	030.7	236.5	100.0000	0599.4	136.9	53.9
081.0	003.6689	0158.4	031.1	236.2	100.0000	0599.4	136.8	53.9
082.0	003.8542	0158.4	031.4	235.9	100.0000	0599.4	136.7	54.0
083.0	004.0440	0158.5	031.8	235.6	100.0000	0599.4	136.6	54.0
084.0	004.2384	0158.4	032.2	235.4	100.0000	0599.4	136.6	54.0
085.0	004.4374	0158.3	032.6	235.1	100.0000	0599.4	136.5	54.0
086.0	004.6409	0158.3	032.9	234.8	100.0000	0599.4	136.5	54.0
087.0	004.8490	0158.2	033.3	234.5	100.0000	0599.4	136.5	54.0
088.0	005.0617	0158.0	033.6	234.2	100.0000	0599.4	136.6	54.0
089.0	005.2789	0157.9	033.9	233.9	100.0000	0599.4	136.6	54.0
090.0	005.5007	0157.7	034.2	233.7	100.0000	0599.4	136.7	53.9