

Engineering Statement

In Support of an Application for a Construction Permit

WQXB, Channel 261C2, Grenada, Mississippi

WSMS Protected/WQXB Interfering FM Overlap Study

03 Sec. Terrain Data

WSMS BLH19960730KC
Channel = 260C2
Max ERP = 50 kW
RCAMSL = 215 M
N. Lat = 33 39 14
W. Lng = 88 37 15

WQXB Proposed
Channel = 261C2
Max ERP = 48 kW
RCAMSL = 237.3 M
N. Lat = 33 51 24
W. Lng = 89 55 15

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	050.0000	0134.0	050.0	076.7	035.1916	0153.2	123.2	41.4
010.0	050.0000	0134.8	050.1	077.8	033.4071	0153.9	131.6	39.6
020.0	050.0000	0137.7	050.5	079.2	031.1217	0156.5	139.7	37.7
030.0	050.0000	0137.4	050.5	081.2	028.6363	0157.7	146.9	36.1
040.0	050.0000	0139.7	050.8	083.4	026.3781	0158.6	153.7	34.6
050.0	050.0000	0143.5	051.3	085.7	024.0174	0159.2	159.9	33.2
060.0	050.0000	0149.2	052.1	088.3	021.6100	0159.1	165.4	31.8
070.0	050.0000	0153.1	052.6	091.0	019.5992	0159.1	169.8	30.5
080.0	050.0000	0153.7	052.7	093.9	018.3842	0161.7	172.8	29.8
090.0	050.0000	0157.9	053.2	096.9	017.1908	0164.3	175.1	29.2
100.0	050.0000	0156.5	053.0	099.9	016.0082	0165.8	175.6	28.8
110.0	050.0000	0160.4	053.5	103.0	015.9806	0166.4	175.7	28.8
120.0	050.0000	0153.6	052.7	105.9	015.9806	0167.5	173.3	29.3
130.0	050.0000	0150.0	052.2	108.8	015.9806	0169.3	170.1	29.9
140.0	050.0000	0153.4	052.6	111.8	016.6571	0170.6	166.8	30.7
150.0	050.0000	0151.2	052.4	114.4	017.7255	0171.1	161.8	31.9
160.0	050.0000	0153.6	052.7	117.1	018.8143	0171.5	156.3	33.1
170.0	050.0000	0153.3	052.6	119.5	019.8185	0173.4	149.7	34.4
180.0	050.0000	0149.6	052.1	121.5	021.3703	0174.9	142.0	36.1
190.0	050.0000	0148.9	052.0	123.2	023.0087	0176.3	133.9	38.1
200.0	050.0000	0147.2	051.8	124.5	024.2132	0176.6	125.2	40.0
210.0	050.0000	0150.6	052.3	125.5	025.2041	0176.8	116.4	41.9
220.0	050.0000	0152.8	052.6	125.7	025.4421	0176.9	107.2	43.9
230.0	050.0000	0153.9	052.7	125.0	024.7007	0176.6	098.1	46.1
240.0	050.0000	0152.5	052.5	122.9	022.6798	0176.1	089.6	48.2
250.0	050.0000	0151.4	052.4	119.4	019.7847	0173.4	082.0	49.8
260.0	050.0000	0150.4	052.2	114.5	017.7282	0171.1	075.9	51.1
270.0	050.0000	0146.7	051.8	108.0	015.9806	0168.7	072.3	51.8
280.0	050.0000	0147.5	051.9	100.8	015.9806	0166.0	070.6	52.2
290.0	050.0000	0148.0	051.9	093.6	018.5267	0161.6	071.7	52.3
300.0	050.0000	0145.3	051.6	087.3	022.5436	0159.4	075.7	51.7
310.0	050.0000	0147.0	051.8	082.1	027.7214	0157.9	081.3	50.8
320.0	050.0000	0141.7	051.1	078.9	031.6288	0155.9	089.0	49.0
330.0	050.0000	0137.7	050.5	077.0	034.6184	0153.1	097.3	46.9
340.0	050.0000	0128.5	049.2	076.7	035.1874	0153.2	106.0	44.8
350.0	050.0000	0131.6	049.6	076.3	035.8542	0153.2	114.6	43.1