

## Engineering Statement

### In Support of an Application for a Construction Permit

#### WQXB, Channel 261C2, Grenada, Mississippi

#### WQXB Protected/WSMS Interfering FM Overlap Study

03 Sec Terrain Data

WQXB Proposed  
Channel = 261C2  
Max ERP = 48 kW  
RCAMSL = 237.3 M  
N. Lat = 335124  
W. Lng = 895515

WSMS BLH19960730KC  
Channel = 260C2  
Max ERP = 50 kW  
RCAMSL = 215 M  
N. Lat = 33 39 14  
W. Lng = 88 37 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	048.0000	0140.4	050.5	301.8	050.0000	0145.1	140.6	39.3
010.0	048.0000	0136.9	050.0	303.2	050.0000	0145.4	132.6	40.9
020.0	048.0000	0131.1	049.2	304.1	050.0000	0145.7	124.1	42.5
030.0	048.0000	0123.8	048.2	304.2	050.0000	0145.8	115.6	44.1
040.0	048.0000	0117.4	047.2	303.5	050.0000	0145.5	107.3	45.8
050.0	048.0000	0130.1	049.1	303.5	050.0000	0145.6	098.7	47.8
060.0	048.0000	0140.1	050.5	302.3	050.0000	0145.2	090.2	50.2
070.0	047.0448	0148.7	051.5	299.5	050.0000	0145.5	082.4	52.5
080.0	029.9568	0157.4	048.6	293.4	050.0000	0147.3	078.9	53.6
090.0	020.0312	0158.1	045.1	286.9	050.0000	0148.4	078.6	53.8
100.0	015.9806	0165.8	044.0	281.2	050.0000	0147.8	078.5	53.8
110.0	015.9806	0170.2	044.5	275.5	050.0000	0144.5	079.0	53.5
120.0	020.0312	0173.7	046.9	269.6	050.0000	0146.9	080.0	53.3
130.0	029.9568	0173.6	050.4	263.3	050.0000	0149.8	082.6	52.6
140.0	047.0448	0165.7	053.6	258.1	050.0000	0150.3	088.2	51.0
150.0	048.0000	0162.9	053.4	256.0	050.0000	0150.4	097.0	48.5
160.0	048.0000	0164.6	053.6	255.0	050.0000	0150.5	106.1	46.2
170.0	048.0000	0171.1	054.4	254.7	050.0000	0150.6	115.6	44.3
180.0	048.0000	0168.3	054.1	255.6	050.0000	0150.4	124.8	42.5
190.0	048.0000	0169.3	054.2	257.0	050.0000	0150.3	133.8	40.8
200.0	048.0000	0167.3	053.9	258.9	050.0000	0150.2	142.0	39.2
210.0	048.0000	0165.2	053.7	261.2	050.0000	0150.4	149.5	37.9
220.0	048.0000	0171.3	054.4	263.4	050.0000	0149.8	156.8	36.7
230.0	048.0000	0166.2	053.8	266.2	050.0000	0148.3	162.3	35.7
240.0	048.0000	0159.5	053.0	269.1	050.0000	0147.1	166.6	34.9
250.0	048.0000	0158.1	052.9	272.0	050.0000	0145.8	170.3	34.2
260.0	048.0000	0156.3	052.6	275.0	050.0000	0144.6	172.8	33.7
270.0	048.0000	0151.8	052.1	278.0	050.0000	0145.7	173.9	33.5
280.0	048.0000	0149.6	051.8	281.0	050.0000	0147.8	174.2	33.5
290.0	048.0000	0141.8	050.7	283.9	050.0000	0147.9	172.6	33.8
300.0	048.0000	0144.8	051.1	286.8	050.0000	0148.4	171.4	34.0
310.0	048.0000	0141.5	050.7	289.7	050.0000	0148.1	168.3	34.6
320.0	048.0000	0141.4	050.7	292.4	050.0000	0147.5	164.6	35.3
330.0	048.0000	0136.9	050.0	294.9	050.0000	0146.8	159.4	36.2
340.0	048.0000	0147.7	051.5	297.8	050.0000	0146.0	154.9	36.9
350.0	048.0000	0146.2	051.3	300.0	050.0000	0145.3	148.3	37.9