

**Engineering Statement
In Support of an
Application for a Construction Permit
KQXY, Channel 231C1, Beaumont, Texas**

Channel 230A at Lufkin, TX Protected/KQXY Interfering FM Overlap Study

30 Sec. Terrain Data

ALLO
Channel = 230A
Max ERP = 6 kW
RCAMSL = 181.2 M
N. Lat = 312048
W. Lng = 944330

KQXY
Channel = 231C1
Max ERP = 100 kW
RCAMSL = 120 M
N. Lat = 302015
W. Lng = 940849

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	006.0000	0109.4	029.5	338.9	100.0000	0099.2	151.8	39.1
010.0	006.0000	0107.0	029.2	340.6	100.0000	0098.4	149.3	39.4
020.0	006.0000	0110.2	029.6	342.3	100.0000	0097.5	146.8	39.9
030.0	006.0000	0113.7	030.0	343.9	100.0000	0096.7	143.6	40.4
040.0	006.0000	0120.1	030.7	345.5	100.0000	0095.9	140.0	41.1
050.0	006.0000	0112.0	029.8	346.3	100.0000	0095.7	135.0	42.0
060.0	006.0000	0105.0	028.9	346.7	100.0000	0095.6	129.9	43.0
070.0	006.0000	0098.0	028.0	346.7	100.0000	0095.6	124.9	43.9
080.0	006.0000	0095.6	027.7	346.6	100.0000	0095.6	120.0	44.8
090.0	006.0000	0090.9	027.0	346.0	100.0000	0095.8	115.4	45.6
100.0	006.0000	0088.8	026.7	345.0	100.0000	0096.1	111.1	46.4
110.0	006.0000	0092.3	027.2	344.0	100.0000	0096.6	106.8	47.2
120.0	006.0000	0092.7	027.3	342.3	100.0000	0097.5	103.2	48.0
130.0	006.0000	0097.9	028.0	340.3	100.0000	0098.5	099.8	48.8
140.0	006.0000	0099.7	028.3	337.8	100.0000	0099.4	097.6	49.3
150.0	006.0000	0099.7	028.3	335.0	100.0000	0100.2	096.6	49.6
160.0	006.0000	0099.5	028.2	332.1	100.0000	0100.8	096.8	49.6
170.0	006.0000	0096.0	027.8	329.4	100.0000	0101.0	098.5	49.2
180.0	006.0000	0099.0	028.2	326.8	100.0000	0101.1	100.4	48.8
190.0	006.0000	0102.4	028.6	324.5	100.0000	0101.4	103.2	48.1
200.0	006.0000	0106.4	029.1	322.6	100.0000	0101.8	106.8	47.4
210.0	006.0000	0114.5	030.1	321.0	100.0000	0102.0	111.0	46.6
220.0	006.0000	0111.7	029.8	320.4	100.0000	0102.0	116.1	45.6
230.0	006.0000	0107.3	029.2	320.5	100.0000	0102.0	121.3	44.7
240.0	006.0000	0104.6	028.9	320.8	100.0000	0102.0	126.3	43.9
250.0	006.0000	0103.3	028.7	321.5	100.0000	0101.9	131.1	43.0
260.0	006.0000	0102.4	028.6	322.4	100.0000	0101.8	135.6	42.1
270.0	006.0000	0098.9	028.1	323.6	100.0000	0101.6	139.6	41.3
280.0	006.0000	0092.6	027.3	325.2	100.0000	0101.3	142.6	40.7
290.0	006.0000	0084.1	026.1	326.9	100.0000	0101.1	144.8	40.3
300.0	006.0000	0080.3	025.5	328.5	100.0000	0101.0	146.7	40.0
310.0	006.0000	0078.1	025.2	330.1	100.0000	0100.9	148.2	39.7
320.0	006.0000	0077.4	025.1	331.7	100.0000	0100.8	149.3	39.5
330.0	006.0000	0089.7	026.9	333.4	100.0000	0100.7	151.6	39.1
340.0	006.0000	0102.1	028.6	335.2	100.0000	0100.1	153.2	38.9
350.0	006.0000	0107.1	029.2	337.1	100.0000	0099.5	153.0	38.9