

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

KQXY Protected/KULF.A Interfering FM Overlap Study

30 Sec. Terrain Data

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

KULF.A
Channel = 231C2
Max ERP = 50 kW
RCAMSL = 223 M
N. Lat = 302331
W. Lng = 962015

Protected
60 dBu

Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)		Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
000.0	100.0000	0105.6	051.9		077.1	050.0000	0164.5	215.0	26.6
010.0	100.0000	0109.2	052.5		077.6	050.0000	0165.1	223.9	25.0
020.0	100.0000	0113.9	053.3		078.4	050.0000	0165.9	232.5	23.7
030.0	100.0000	0112.5	053.1		079.8	050.0000	0166.9	240.0	22.6
040.0	100.0000	0111.2	052.9		081.3	050.0000	0167.4	246.6	21.5
050.0	100.0000	0110.7	052.8		083.0	050.0000	0167.6	252.2	20.5
060.0	100.0000	0111.1	052.8		084.7	050.0000	0168.1	256.9	19.7
070.0	100.0000	0111.6	052.9		086.6	050.0000	0168.5	260.4	19.1
080.0	100.0000	0111.4	052.9		088.6	050.0000	0169.1	262.6	18.8
090.0	100.0000	0111.7	052.9		090.6	050.0000	0169.5	263.6	18.6
100.0	100.0000	0112.1	053.0		092.6	050.0000	0169.1	263.3	18.7
110.0	100.0000	0112.4	053.1		094.6	050.0000	0168.8	261.7	18.9
120.0	100.0000	0113.9	053.3		096.6	050.0000	0168.7	259.1	19.3
130.0	100.0000	0113.9	053.3		098.5	050.0000	0166.8	255.0	20.0
140.0	100.0000	0113.9	053.3		100.2	050.0000	0162.6	249.7	20.8
150.0	100.0000	0113.9	053.3		101.8	050.0000	0160.0	243.3	21.8
160.0	100.0000	0117.2	053.8		103.3	050.0000	0159.0	236.4	22.9
170.0	100.0000	0117.1	053.8		104.5	050.0000	0158.6	228.2	24.2
180.0	100.0000	0115.9	053.6		105.3	050.0000	0158.0	219.4	25.7
190.0	100.0000	0113.2	053.2		105.7	050.0000	0157.7	210.1	27.3
200.0	100.0000	0113.4	053.2		105.8	050.0000	0157.7	200.8	29.0
210.0	100.0000	0112.5	053.1		105.3	050.0000	0158.0	191.7	30.6
220.0	100.0000	0109.9	052.6		104.3	050.0000	0158.7	183.1	32.2
230.0	100.0000	0108.4	052.4		102.7	050.0000	0159.3	175.3	33.6
240.0	100.0000	0108.8	052.5		100.7	050.0000	0161.6	168.5	34.9
250.0	100.0000	0108.0	052.3		098.0	050.0000	0167.5	163.4	36.0
260.0	100.0000	0106.2	052.0		095.0	050.0000	0168.7	160.2	36.6
270.0	100.0000	0106.8	052.1		091.8	050.0000	0169.3	158.6	36.9
280.0	100.0000	0107.8	052.3		088.5	050.0000	0169.1	159.0	36.8
290.0	100.0000	0106.9	052.1		085.4	050.0000	0168.3	161.9	36.3
300.0	100.0000	0105.2	051.8		082.7	050.0000	0167.6	166.6	35.4
310.0	100.0000	0104.0	051.6		080.5	050.0000	0167.2	172.9	34.3
320.0	100.0000	0102.1	051.3		078.9	050.0000	0166.3	180.3	32.9
330.0	100.0000	0100.9	051.0		077.8	050.0000	0165.3	188.5	31.3
340.0	100.0000	0098.7	050.6		077.3	050.0000	0164.7	197.2	29.8
350.0	100.0000	0096.6	050.2		077.2	050.0000	0164.7	206.0	28.2