

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

KQXY Protected/Channel 232A at Hemphill, TX Interfering FM Overlap Study

30 Sec. Terrain Data

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

RADD
Channel = 232A
Max ERP = 6 kW
RCAMSL = 176.3 M
N. Lat = 311818
W. Lng = 935139

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	100.0000	0105.6	051.9	206.2	006.0000	0100.0	061.7	47.3
010.0	100.0000	0109.2	052.5	198.1	006.0000	0099.7	058.4	48.4
020.0	100.0000	0113.9	053.3	189.0	006.0000	0097.9	057.9	48.5
030.0	100.0000	0112.5	053.1	180.7	006.0000	0100.0	061.3	47.4
040.0	100.0000	0111.2	052.9	174.3	006.0000	0101.1	067.1	45.7
050.0	100.0000	0110.7	052.8	169.9	006.0000	0102.6	074.5	43.6
060.0	100.0000	0111.1	052.8	167.2	006.0000	0104.6	082.9	41.3
070.0	100.0000	0111.6	052.9	165.9	006.0000	0104.9	091.9	38.8
080.0	100.0000	0111.4	052.9	165.8	006.0000	0104.9	101.1	36.5
090.0	100.0000	0111.7	052.9	166.6	006.0000	0104.8	110.3	34.6
100.0	100.0000	0112.1	053.0	168.0	006.0000	0103.9	119.1	33.0
110.0	100.0000	0112.4	053.1	169.8	006.0000	0102.7	127.4	31.5
120.0	100.0000	0113.9	053.3	172.0	006.0000	0101.8	135.2	29.9
130.0	100.0000	0113.9	053.3	174.6	006.0000	0101.1	142.2	28.6
140.0	100.0000	0113.9	053.3	177.3	006.0000	0100.3	148.2	27.5
150.0	100.0000	0113.9	053.3	180.3	006.0000	0099.9	153.4	26.6
160.0	100.0000	0117.2	053.8	183.3	006.0000	0099.0	158.1	25.8
170.0	100.0000	0117.1	053.8	186.5	006.0000	0097.3	161.3	25.2
180.0	100.0000	0115.9	053.6	189.7	006.0000	0097.9	163.2	24.8
190.0	100.0000	0113.2	053.2	193.0	006.0000	0098.9	163.8	24.8
200.0	100.0000	0113.4	053.2	196.2	006.0000	0099.3	163.8	24.8
210.0	100.0000	0112.5	053.1	199.5	006.0000	0099.7	162.4	25.0
220.0	100.0000	0109.9	052.6	202.6	006.0000	0100.1	159.8	25.5
230.0	100.0000	0108.4	052.4	205.7	006.0000	0100.0	156.3	26.1
240.0	100.0000	0108.8	052.5	208.7	006.0000	0100.6	152.1	26.8
250.0	100.0000	0108.0	052.3	211.5	006.0000	0101.2	146.7	27.8
260.0	100.0000	0106.2	052.0	214.1	006.0000	0102.0	140.4	29.0
270.0	100.0000	0106.8	052.1	216.6	006.0000	0102.2	133.5	30.3
280.0	100.0000	0107.8	052.3	218.8	006.0000	0101.3	125.9	31.7
290.0	100.0000	0106.9	052.1	220.5	006.0000	0099.8	117.6	33.1
300.0	100.0000	0105.2	051.8	221.6	006.0000	0099.2	108.8	34.7
310.0	100.0000	0104.0	051.6	222.1	006.0000	0099.0	099.8	36.6
320.0	100.0000	0102.1	051.3	221.6	006.0000	0099.2	090.9	38.8
330.0	100.0000	0100.9	051.0	220.0	006.0000	0100.3	082.3	41.2
340.0	100.0000	0098.7	050.6	216.8	006.0000	0102.2	074.5	43.5
350.0	100.0000	0096.6	050.2	211.9	006.0000	0101.3	068.1	45.4