

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

KULF.A Protected/KQXY Interfering FM Overlap Study

30 Sec. Terrain Data

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

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

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 | 050.0000 | 0156.5 | 053.0 | 286.3 | 100.0000 | 0107.5 | 218.2 | 27.8 |
| 010.0 | 050.0000 | 0151.3 | 052.4 | 286.6 | 100.0000 | 0107.5 | 209.1 | 29.5 |
| 020.0 | 050.0000 | 0150.8 | 052.3 | 286.6 | 100.0000 | 0107.5 | 200.0 | 30.9 |
| 030.0 | 050.0000 | 0151.7 | 052.4 | 286.2 | 100.0000 | 0107.5 | 191.0 | 32.3 |
| 040.0 | 050.0000 | 0153.3 | 052.6 | 285.3 | 100.0000 | 0107.6 | 182.3 | 33.9 |
| 050.0 | 050.0000 | 0150.7 | 052.3 | 283.6 | 100.0000 | 0107.7 | 174.7 | 35.3 |
| 060.0 | 050.0000 | 0150.7 | 052.3 | 281.5 | 100.0000 | 0107.7 | 168.1 | 36.5 |
| 070.0 | 050.0000 | 0156.4 | 053.0 | 279.0 | 100.0000 | 0107.8 | 162.4 | 37.5 |
| 080.0 | 050.0000 | 0167.0 | 054.3 | 276.1 | 100.0000 | 0107.5 | 157.8 | 38.3 |
| 090.0 | 050.0000 | 0169.6 | 054.6 | 272.6 | 100.0000 | 0107.6 | 156.1 | 38.6 |
| 100.0 | 050.0000 | 0163.2 | 053.8 | 269.2 | 100.0000 | 0106.5 | 157.7 | 38.3 |
| 110.0 | 050.0000 | 0154.4 | 052.8 | 266.1 | 100.0000 | 0105.9 | 161.6 | 37.6 |
| 120.0 | 050.0000 | 0150.6 | 052.3 | 263.5 | 100.0000 | 0106.0 | 166.8 | 36.7 |
| 130.0 | 050.0000 | 0134.5 | 050.1 | 261.8 | 100.0000 | 0106.1 | 174.5 | 35.3 |
| 140.0 | 050.0000 | 0137.9 | 050.5 | 260.0 | 100.0000 | 0106.2 | 181.4 | 34.0 |
| 150.0 | 050.0000 | 0137.5 | 050.5 | 259.0 | 100.0000 | 0106.3 | 189.5 | 32.6 |
| 160.0 | 050.0000 | 0130.4 | 049.5 | 258.7 | 100.0000 | 0106.3 | 198.3 | 31.1 |
| 170.0 | 050.0000 | 0128.4 | 049.2 | 258.6 | 100.0000 | 0106.3 | 206.9 | 29.8 |
| 180.0 | 050.0000 | 0137.2 | 050.4 | 258.6 | 100.0000 | 0106.3 | 215.7 | 28.3 |
| 190.0 | 050.0000 | 0132.8 | 049.8 | 259.4 | 100.0000 | 0106.3 | 223.9 | 26.8 |
| 200.0 | 050.0000 | 0128.3 | 049.2 | 260.5 | 100.0000 | 0106.2 | 231.4 | 25.4 |
| 210.0 | 050.0000 | 0138.7 | 050.6 | 261.5 | 100.0000 | 0106.2 | 239.3 | 24.0 |
| 220.0 | 050.0000 | 0145.9 | 051.6 | 262.8 | 100.0000 | 0106.0 | 246.4 | 22.8 |
| 230.0 | 050.0000 | 0156.2 | 053.0 | 264.3 | 100.0000 | 0106.0 | 253.1 | 21.9 |
| 240.0 | 050.0000 | 0167.5 | 054.3 | 266.0 | 100.0000 | 0105.9 | 258.8 | 21.0 |
| 250.0 | 050.0000 | 0161.0 | 053.6 | 268.0 | 100.0000 | 0106.0 | 261.4 | 20.6 |
| 260.0 | 050.0000 | 0151.9 | 052.4 | 270.0 | 100.0000 | 0106.8 | 262.3 | 20.4 |
| 270.0 | 050.0000 | 0146.8 | 051.8 | 272.0 | 100.0000 | 0107.5 | 262.4 | 20.4 |
| 280.0 | 050.0000 | 0144.5 | 051.5 | 274.0 | 100.0000 | 0107.7 | 261.6 | 20.6 |
| 290.0 | 050.0000 | 0142.9 | 051.2 | 275.9 | 100.0000 | 0107.5 | 259.6 | 20.9 |
| 300.0 | 050.0000 | 0150.7 | 052.3 | 277.9 | 100.0000 | 0107.6 | 257.6 | 21.2 |
| 310.0 | 050.0000 | 0155.3 | 052.9 | 279.8 | 100.0000 | 0107.8 | 253.9 | 21.8 |
| 320.0 | 050.0000 | 0160.5 | 053.5 | 281.6 | 100.0000 | 0107.7 | 249.1 | 22.5 |
| 330.0 | 050.0000 | 0161.8 | 053.7 | 283.2 | 100.0000 | 0107.7 | 242.7 | 23.5 |
| 340.0 | 050.0000 | 0162.0 | 053.7 | 284.6 | 100.0000 | 0107.6 | 235.3 | 24.7 |
| 350.0 | 050.0000 | 0162.0 | 053.7 | 285.7 | 100.0000 | 0107.6 | 227.2 | 26.2 |