**Engineering Statement**
**In Support of an**

**Application for a Construction Permit**

**KCSX(FM), Lee's Summit, Missouri**

**KCSX Protected/AD247C3 at Madison, MO FM Overlap Study**

KCSX
Channel = 247C1
Max ERP = 55 kW
RCAMSL = 617.2 M
N. Lat = 39 05 26
W. Lng = 94 28 18

RADD
Channel = 247C3
Max ERP = 25 kW
RCAMSL = 331.1 M
N. Lat = 39 24 37
W. Lng = 92 10 58

| 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 | 055.0000 | 0384.3 | 072.4 | 281.4 | 025.0000 | 0090.7 | 200.1 | 24.2 |
| 010.0 | 055.0000 | 0390.7 | 072.9 | 281.9 | 025.0000 | 0090.7 | 187.6 | 26.3 |
| 020.0 | 055.0000 | 0389.4 | 072.8 | 281.5 | 025.0000 | 0090.7 | 174.9 | 28.6 |
| 030.0 | 055.0000 | 0394.2 | 073.1 | 280.5 | 025.0000 | 0090.6 | 162.6 | 30.9 |
| 040.0 | 055.0000 | 0368.8 | 071.3 | 277.8 | 025.0000 | 0089.4 | 152.2 | 32.7 |
| 050.0 | 055.0000 | 0364.0 | 071.0 | 274.6 | 025.0000 | 0088.1 | 143.0 | 34.2 |
| 060.0 | 055.0000 | 0347.4 | 069.8 | 270.3 | 025.0000 | 0087.3 | 136.6 | 35.4 |
| 070.0 | 055.0000 | 0336.7 | 069.0 | 265.3 | 025.0000 | 0086.1 | 132.9 | 36.1 |
| 080.0 | 055.0000 | 0344.5 | 069.6 | 260.1 | 025.0000 | 0086.2 | 130.9 | 36.5 |
| 090.0 | 055.0000 | 0354.1 | 070.3 | 254.8 | 025.0000 | 0089.0 | 132.1 | 36.3 |
| 100.0 | 055.0000 | 0343.2 | 069.5 | 250.2 | 025.0000 | 0091.0 | 137.7 | 35.3 |
| 110.0 | 055.0000 | 0344.9 | 069.6 | 246.3 | 025.0000 | 0089.3 | 145.1 | 33.9 |
| 120.0 | 055.0000 | 0344.1 | 069.6 | 243.4 | 025.0000 | 0088.6 | 154.6 | 32.2 |
| 130.0 | 055.0000 | 0340.3 | 069.3 | 241.5 | 025.0000 | 0088.5 | 165.6 | 30.3 |
| 140.0 | 055.0000 | 0338.4 | 069.2 | 240.5 | 025.0000 | 0088.4 | 177.4 | 28.1 |
| 150.0 | 055.0000 | 0331.0 | 068.6 | 240.4 | 025.0000 | 0088.4 | 189.5 | 25.9 |
| 160.0 | 055.0000 | 0331.9 | 068.7 | 240.8 | 025.0000 | 0088.5 | 201.5 | 24.0 |
| 170.0 | 055.0000 | 0325.2 | 068.2 | 241.8 | 025.0000 | 0088.6 | 213.0 | 22.1 |
| 180.0 | 055.0000 | 0325.0 | 068.2 | 243.0 | 025.0000 | 0088.6 | 223.9 | 20.2 |
| 190.0 | 055.0000 | 0328.6 | 068.5 | 244.6 | 025.0000 | 0088.7 | 234.1 | 18.3 |
| 200.0 | 055.0000 | 0350.5 | 070.0 | 246.2 | 025.0000 | 0089.2 | 244.4 | 16.6 |
| 210.0 | 055.0000 | 0367.4 | 071.2 | 248.2 | 025.0000 | 0090.3 | 253.3 | 15.3 |
| 220.0 | 055.0000 | 0354.2 | 070.3 | 250.7 | 025.0000 | 0091.1 | 259.3 | 14.4 |
| 230.0 | 055.0000 | 0344.9 | 069.6 | 253.1 | 025.0000 | 0090.5 | 264.0 | 13.6 |
| 240.0 | 055.0000 | 0350.0 | 070.0 | 255.6 | 025.0000 | 0088.3 | 268.0 | 12.9 |
| 250.0 | 055.0000 | 0330.1 | 068.6 | 258.2 | 025.0000 | 0087.1 | 268.8 | 12.7 |
| 260.0 | 055.0000 | 0344.9 | 069.6 | 260.8 | 025.0000 | 0085.8 | 270.5 | 12.4 |
| 270.0 | 055.0000 | 0366.7 | 071.2 | 263.4 | 025.0000 | 0085.7 | 271.0 | 12.3 |
| 280.0 | 055.0000 | 0360.5 | 070.7 | 266.0 | 025.0000 | 0086.3 | 268.0 | 12.8 |
| 290.0 | 055.0000 | 0374.1 | 071.7 | 268.6 | 025.0000 | 0087.0 | 264.8 | 13.4 |
| 300.0 | 055.0000 | 0385.6 | 072.5 | 271.1 | 025.0000 | 0087.5 | 259.9 | 14.2 |
| 310.0 | 055.0000 | 0375.0 | 071.8 | 273.4 | 025.0000 | 0088.0 | 252.2 | 15.4 |
| 320.0 | 055.0000 | 0369.7 | 071.4 | 275.4 | 025.0000 | 0088.4 | 243.5 | 16.7 |
| 330.0 | 055.0000 | 0368.5 | 071.3 | 277.3 | 025.0000 | 0089.2 | 233.9 | 18.4 |
| 340.0 | 055.0000 | 0366.4 | 071.2 | 278.9 | 025.0000 | 0090.0 | 223.3 | 20.3 |
| 350.0 | 055.0000 | 0372.8 | 071.6 | 280.3 | 025.0000 | 0090.5 | 212.0 | 22.4 |

**Exhibit E, Figure 6**