

COMMON FREQUENCY INC
KZCF (FM) ATWATER, CA
FAC ID: 176739
MINOR MODIFICATION

LOC 37 17 40.0 N 120 28 36.3 W
AGL 36.5
SITE ELEV 51.2
COR 87.7 M
POWER 10 kw
CH 214
HAAT 29.7 M
PAT DA
CLASS B1
ASR 1223679



COL COVERAGE: >50 % POP/AREA

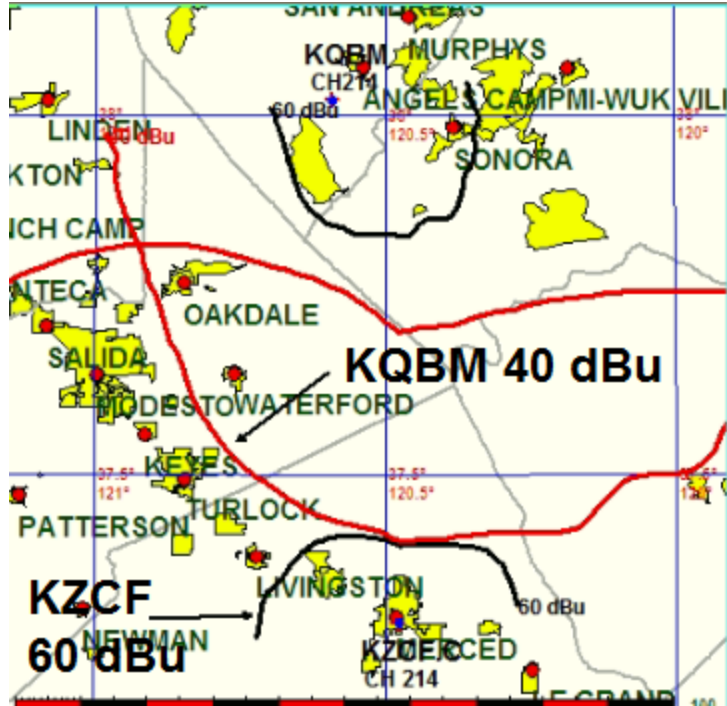
CONTOURS CLEARANCE

| Common Frequency, Inc | | | | | | | | | | | |
|-----------------------|---------|---|-------|-------|------------------|--------------|---------|-----------------|----------------------------|--------------|---------|
| REFERENCE | | CH# 214B1- 90.7 MHz, Pwr= 10 kW DA, HAAT= 29.7 M, COR= 87.7 M | | | | | | DISPLAY DATES | | | |
| 37 17 40.0 N. | | Average Protected F(50-50)= 18.1 km | | | | | | DATA 09-10-21 | | | |
| 120 28 36.3 W. | | Standard Directional | | | | | | SEARCH 09-11-21 | | | |
| | | | | | | | | | | | |
| CH | CALL | TYPE | ANT | AZI. | DIST | LAT. | Pwr(kW) | INT(km) | PRO(km) | *IN* | *OUT* |
| CITY | | | STATE | <-- | FILE # | LNG. | HAAT(M) | COR(M) | LICENSEE | (Overlap | in km) |
| | | | | | | | | | | | |
| 214A | KZCF! | CP | DCN | 312.5 | 18.08 | 37 24 15.50 | 0.500 | | --- | Reference--- | |
| Atwater | | | CA | 132.5 | 0000144062 | 120 37 39.30 | 20 | 69 | Common Frequency, Inc | | |
| 214D | K214CT! | LIC | VN | 56.1 | 47.70 | 37 31 58.80 | 0.010 | 59.3 | 16.0 | -29.4*< | -47.4*< |
| Mariposa | | | CA | 236.4 | BMLFT20150430ABB | 120 01 39.60 | 606 | 1308 | CSN International | | |
| 214A | KQBM | LIC | D | 352.9 | 81.62 | 38 01 22.70 | 0.100 | 68.0 | 20.6 | 0.9 | 10.9 |
| San Andreas | | | CA | 172.9 | BLED20140218AAR | 120 35 29.70 | 475 | 873 | Blue Mountain Coalition Fo | | |
| 214A | KHRI | LIC | CN | 240.2 | 94.70 | 36 52 01.80 | 0.170 | 21.5 | 6.4 | 50.7 | 3.6 |
| Hollister | | | CA | 59.6 | 0000107665 | 121 24 01.80 | -111 | 102 | Educational Media Foundati | | |
| 215A | KBDG | LIC | DCN | 305.5 | 42.66 | 37 31 00.70 | 0.730 | 13.1 | 9.4 | 10.6 | 5.3 |
| Turlock | | | CA | 125.3 | BLED20110523AEO | 120 52 13.70 | 12 | 41 | Assyrian American Civic Cl | | |
| 214A | KFSR | LIC | CN | 129.4 | 84.16 | 36 48 41.80 | 2.550 | 51.8 | 13.1 | 17.1 | 5.3 |
| Fresno | | | CA | 309.9 | BLED19880314KC | 119 44 46.50 | 20 | 124 | California State Universit | | |
| 214B1 | KYKL | LIC | DCN | 286.8 | 104.01 | 37 33 36.70 | 0.140 | 53.5 | 15.9 | 30.1 | 7.0 |
| Tracy | | | CA | 106.2 | 0000088794 | 121 36 22.80 | 532 | 1132 | Educational Media Foundati | | |
| 216B | KLVY | LIC | CN | 104.5 | 73.07 | 37 07 39.80 | 39.000 | 7.5 | 61.0 | 47.9 | 10.3 |
| Fairmead | | | CA | 284.9 | BLED20100401AHV | 119 40 42.50 | 170 | 621 | Educational Media Foundati | | |
| 213A | KLXF | LIC | CN | 309.5 | 54.96 | 37 36 27.80 | 5.000 | 23.3 | 15.6 | 12.8 | 11.4 |
| Modesto | | | CA | 129.2 | 0000106732 | 120 57 30.80 | 38 | 62 | Educational Media Foundati | | |
| 268B | KAMB« | LIC | CN | 55.9 | 47.59 | 37 32 00.80 | 1.850 | 0.0 | 0.0 | 16.5R | 31.1M |
| Merced | | | CA | 236.1 | BLED19971112KJ | 120 01 49.60 | 638 | 1338 | Central Valley Broadcastin | | |
| 06 -- K06QL-D« | | | | | | | | | | | |
| Ceres | | CP | DCN | 356.1 | 55.53 | 38 11 09.00 | 3.000 | 6.3 | 15.3 | 21.5R | 34.0M |
| | | | CA | 176.1 | 0000022114 | 122 49 03.00 | | 417 | | | |
| 212B | KFNO | LIC | DCN | 104.5 | 95.73 | 37 04 24.80 | 2.200 | 3.1 | 59.6 | 74.9 | 34.4 |
| Fresno | | | CA | 285.2 | BLED20060103AFV | 119 25 55.50 | 594 | 1424 | Family Stations, Inc. | | |
| 217B | KUOP | LIC | DCN | 285.2 | 79.98 | 37 28 47.70 | 7.000 | 1.3 | 32.3 | 58.0 | 45.6 |
| Stockton | | | CA | 104.7 | BLED19830310AI | 121 21 05.70 | 372 | 827 | California State Universit | | |
| 214A | KSQD | LIC | DCN | 257.4 | 143.35 | 37 00 09.80 | 0.320 | 33.2 | 9.9 | 87.6 | 48.4 |
| Santa Cruz | | | CA | 76.4 | BMLED20060623AAU | 122 03 08.80 | 111 | 271 | Natural Bridges Media | | |
| 06 -- KMCF-LD« | | | | | | | | | | | |
| Visalia | | LI | DCN | 119.6 | 122.18 | 38 11 09.00 | 3.000 | 8.2 | 51.1 | 59.2R | 63.0M |
| | | | CA | 300.3 | 0000157810 | 122 49 03.00 | | 1046 | | | |

| | | | | | | | | | | | |
|------------------|----|-----|-------|-------------------|--|--------------|-------|------|------|-------|--------|
| 06--- KBKF-LP/K« | | | | | | | | | | | |
| | CP | CN | 280.9 | 125.32 | | 38 11 09.00 | 3.000 | 11.9 | 34.6 | 46.4R | 78.9M |
| San Jose | | CA | 100.0 | BPTVL-20101014ACL | | 122 49 03.00 | | 831 | | | |
| 06 -- KBKF-LD« | | | | | | | | | | | |
| | LI | DCN | 260.8 | 122.84 | | 38 11 09.00 | 2.000 | 11.4 | 22.6 | 34.0R | 88.8M |
| San Jose | | CA | 80.0 | 0000146566 | | 122 49 03.00 | | 1184 | | | |
| 06--- KBKF-LD« | | | | | | | | | | | |
| | LI | D N | 260.8 | 122.84 | | 38 11 09.00 | 0.600 | 12.4 | 9.1 | 21.5R | 101.3M |
| San Jose | | CA | 80.0 | BLTVL-20100818AAH | | 122 49 03.00 | | 1184 | | | |
| 06Z-- KEFM-LD« | | | | | | | | | | | |
| | LI | DCN | 331.2 | 179.90 | | 38 11 09.00 | 3.000 | 8.7 | 22.6 | 31.2R | 148.7M |
| Sacramento | | CA | 150.5 | 0000144768 | | 122 49 03.00 | | 142 | | | |
| 06Z-- KEFM-LD« | | | | | | | | | | | |
| | LI | DCN | 331.2 | 179.90 | | 38 11 09.00 | 3.000 | 7.9 | 22.6 | 30.4R | 149.5M |
| Sacramento | | CA | 150.5 | 0000155814 | | 122 49 03.00 | | 142 | | | |

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone= - Zone 1A, Co to 3rd
adjacent.

All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside restricted contour.
« = Station meets FCC minimum distance spacing for its class.
< = Contour Overlap



CO CHANNEL: KQBM(FM) 40dbu v 60dbu

09-26-2021 Terrain Data: NGDC 30 SEC FMOver Analysis

KZCF.C

KQBM BLED20140218AAR

Channel = 214B1
Max ERP = 10 kW
RCAMSL = 87.7 m
N. Lat. 37 17 40.00
W. Lng. 120 28 36.30
Protected
60 dBu

Channel = 214A
Max ERP = 0.1 kW
RCAMSL = 873 m
N. Lat. 38 01 22.70
W. Lng. 120 35 29.70
Interfering
40 dBu

| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual IX (dBu) | IX (km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|--------------------|------------|
| 293.0 | 008.3174 | 0038.9 | 019.6 | 186.1 | 000.0260 | 0601.3 | 073.8 | 36.16 | |
| 294.0 | 008.3540 | 0038.7 | 019.5 | 186.0 | 000.0261 | 0601.4 | 073.5 | 36.28 | |
| 295.0 | 008.3723 | 0038.6 | 019.5 | 185.9 | 000.0262 | 0601.6 | 073.2 | 36.41 | |
| 296.0 | 008.4089 | 0038.4 | 019.5 | 185.8 | 000.0263 | 0601.7 | 072.8 | 36.53 | |
| 297.0 | 008.4456 | 0038.3 | 019.5 | 185.7 | 000.0265 | 0601.9 | 072.5 | 36.66 | |
| 298.0 | 008.4640 | 0038.1 | 019.4 | 185.6 | 000.0266 | 0602.2 | 072.2 | 36.79 | |
| 299.0 | 008.4824 | 0037.8 | 019.4 | 185.4 | 000.0268 | 0602.5 | 071.9 | 36.91 | |
| 300.0 | 008.5193 | 0037.3 | 019.3 | 185.2 | 000.0270 | 0602.8 | 071.7 | 37.04 | |
| 301.0 | 008.6676 | 0036.7 | 019.2 | 185.1 | 000.0272 | 0603.1 | 071.4 | 37.17 | |
| 302.0 | 008.7984 | 0036.1 | 019.1 | 184.9 | 000.0275 | 0603.3 | 071.1 | 37.29 | |
| 303.0 | 008.9492 | 0035.5 | 019.1 | 184.7 | 000.0277 | 0603.6 | 070.9 | 37.42 | |
| 304.0 | 009.1012 | 0035.0 | 019.0 | 184.6 | 000.0279 | 0603.8 | 070.6 | 37.54 | |
| 305.0 | 009.2352 | 0034.6 | 019.0 | 184.4 | 000.0281 | 0604.0 | 070.3 | 37.66 | |
| 306.0 | 009.3896 | 0034.1 | 018.9 | 184.2 | 000.0283 | 0604.2 | 070.1 | 37.78 | |

| | | | | | | | | | |
|-------|----------|--------|-------|--|-------|----------|--------|-------|-------|
| 307.0 | 009.5453 | 0033.7 | 018.9 | | 184.1 | 000.0285 | 0604.4 | 069.8 | 37.91 |
| 308.0 | 009.7023 | 0033.4 | 018.9 | | 183.9 | 000.0287 | 0604.5 | 069.5 | 38.03 |
| 309.0 | 009.8406 | 0033.1 | 018.9 | | 183.8 | 000.0289 | 0604.5 | 069.3 | 38.14 |
| 310.0 | 010.0000 | 0032.9 | 018.9 | | 183.6 | 000.0291 | 0604.5 | 069.0 | 38.26 |
| 311.0 | 009.7614 | 0032.8 | 018.8 | | 183.3 | 000.0295 | 0604.1 | 068.8 | 38.36 |
| 312.0 | 009.5453 | 0032.7 | 018.6 | | 183.1 | 000.0298 | 0603.2 | 068.7 | 38.46 |
| 313.0 | 009.3122 | 0032.4 | 018.4 | | 182.8 | 000.0302 | 0601.7 | 068.5 | 38.54 |
| 314.0 | 009.1012 | 0032.1 | 018.2 | | 182.5 | 000.0306 | 0600.0 | 068.4 | 38.61 |
| 315.0 | 008.8736 | 0031.8 | 018.0 | | 182.2 | 000.0310 | 0598.2 | 068.3 | 38.67 |
| 316.0 | 008.6676 | 0031.5 | 017.8 | | 181.9 | 000.0314 | 0596.5 | 068.2 | 38.74 |
| 317.0 | 008.4456 | 0031.4 | 017.7 | | 181.6 | 000.0318 | 0594.9 | 068.1 | 38.81 |
| 318.0 | 008.2446 | 0031.3 | 017.6 | | 181.4 | 000.0321 | 0593.3 | 068.0 | 38.87 |
| 319.0 | 008.0282 | 0031.0 | 017.4 | | 181.1 | 000.0325 | 0591.5 | 067.9 | 38.93 |
| 320.0 | 007.8322 | 0030.7 | 017.1 | | 180.7 | 000.0330 | 0589.6 | 067.9 | 38.97 |
| 321.0 | 007.6213 | 0030.3 | 016.9 | | 180.4 | 000.0334 | 0588.4 | 067.9 | 39.02 |
| 322.0 | 007.4132 | 0030.0 | 016.7 | | 180.1 | 000.0338 | 0586.3 | 067.8 | 39.05 |
| 323.0 | 007.2080 | 0029.8 | 016.6 | | 179.9 | 000.0342 | 0584.4 | 067.8 | 39.10 |
| 324.0 | 007.0057 | 0029.6 | 016.4 | | 179.6 | 000.0347 | 0582.5 | 067.7 | 39.16 |
| 325.0 | 006.7898 | 0029.4 | 016.3 | | 179.3 | 000.0352 | 0580.5 | 067.7 | 39.21 |
| 326.0 | 006.5934 | 0029.2 | 016.2 | | 179.1 | 000.0356 | 0578.5 | 067.6 | 39.25 |
| 327.0 | 006.4000 | 0029.1 | 016.0 | | 178.8 | 000.0361 | 0576.6 | 067.6 | 39.29 |
| 328.0 | 006.2094 | 0028.9 | 015.9 | | 178.5 | 000.0366 | 0574.7 | 067.5 | 39.33 |
| 329.0 | 006.0218 | 0028.8 | 015.8 | | 178.3 | 000.0371 | 0572.8 | 067.5 | 39.37 |
| 330.0 | 005.8370 | 0028.7 | 015.6 | | 178.0 | 000.0376 | 0570.8 | 067.5 | 39.40 |
| 331.0 | 005.6250 | 0028.6 | 015.5 | | 177.8 | 000.0380 | 0568.9 | 067.5 | 39.42 |
| 332.0 | 005.4317 | 0028.4 | 015.3 | | 177.5 | 000.0385 | 0567.3 | 067.5 | 39.45 |
| 333.0 | 005.2273 | 0028.0 | 015.2 | | 177.2 | 000.0390 | 0565.8 | 067.6 | 39.47 |
| 334.0 | 005.0268 | 0027.0 | 015.0 | | 177.0 | 000.0395 | 0563.7 | 067.6 | 39.48 |
| 335.0 | 004.8442 | 0025.7 | 014.9 | | 176.7 | 000.0400 | 0561.7 | 067.6 | 39.49 |
| 336.0 | 004.6512 | 0024.7 | 014.7 | | 176.5 | 000.0405 | 0560.0 | 067.7 | 39.50 |
| 337.0 | 004.4622 | 0024.7 | 014.6 | | 176.2 | 000.0409 | 0558.4 | 067.7 | 39.50 |
| 338.0 | 004.2772 | 0025.1 | 014.4 | | 176.0 | 000.0414 | 0557.0 | 067.8 | 39.50 |
| 339.0 | 004.1088 | 0025.6 | 014.3 | | 175.8 | 000.0419 | 0555.7 | 067.9 | 39.51 |
| 340.0 | 003.9313 | 0026.3 | 014.1 | | 175.5 | 000.0423 | 0554.5 | 067.9 | 39.50 |
| 341.0 | 003.8192 | 0027.0 | 014.0 | | 175.3 | 000.0428 | 0553.4 | 068.0 | 39.52 |
| 342.0 | 003.6966 | 0027.0 | 013.9 | | 175.1 | 000.0432 | 0552.2 | 068.0 | 39.52 |
| 343.0 | 003.5880 | 0026.2 | 013.8 | | 174.9 | 000.0437 | 0551.4 | 068.1 | 39.53 |
| 344.0 | 003.4810 | 0025.2 | 013.7 | | 174.6 | 000.0441 | 0550.7 | 068.1 | 39.54 |
| 345.0 | 003.3756 | 0024.5 | 013.6 | | 174.4 | 000.0445 | 0550.2 | 068.2 | 39.55 |
| 346.0 | 003.2604 | 0024.5 | 013.5 | | 174.2 | 000.0449 | 0549.8 | 068.3 | 39.56 |
| 347.0 | 003.1584 | 0024.5 | 013.4 | | 174.0 | 000.0454 | 0549.9 | 068.3 | 39.58 |
| 348.0 | 003.0581 | 0024.2 | 013.3 | | 173.8 | 000.0458 | 0550.3 | 068.4 | 39.60 |
| 349.0 | 002.9485 | 0023.8 | 013.2 | | 173.6 | 000.0462 | 0551.0 | 068.5 | 39.62 |
| 350.0 | 002.8516 | 0023.5 | 013.1 | | 173.4 | 000.0466 | 0551.9 | 068.6 | 39.65 |
| 351.0 | 002.7562 | 0023.0 | 013.0 | | 173.2 | 000.0470 | 0552.8 | 068.7 | 39.67 |
| 352.0 | 002.6626 | 0022.6 | 012.8 | | 173.0 | 000.0474 | 0553.8 | 068.8 | 39.69 |
| 353.0 | 002.5604 | 0022.1 | 012.7 | | 172.8 | 000.0478 | 0554.7 | 068.9 | 39.70 |
| 354.0 | 002.4701 | 0021.6 | 012.6 | | 172.7 | 000.0482 | 0555.6 | 069.0 | 39.71 |
| 355.0 | 002.3814 | 0021.0 | 012.5 | | 172.5 | 000.0485 | 0556.4 | 069.1 | 39.72 |
| 356.0 | 002.2944 | 0020.7 | 012.4 | | 172.3 | 000.0489 | 0557.1 | 069.2 | 39.73 |
| 357.0 | 002.2090 | 0020.3 | 012.3 | | 172.1 | 000.0493 | 0557.7 | 069.4 | 39.73 |
| 358.0 | 002.1160 | 0020.0 | 012.2 | | 172.0 | 000.0496 | 0558.1 | 069.5 | 39.71 |
| 359.0 | 002.0340 | 0019.9 | 012.1 | | 171.8 | 000.0500 | 0558.3 | 069.7 | 39.70 |
| 000.0 | 001.9536 | 0019.8 | 011.9 | | 171.6 | 000.0503 | 0558.4 | 069.8 | 39.68 |
| 001.0 | 001.9714 | 0019.2 | 012.0 | | 171.5 | 000.0507 | 0558.3 | 069.8 | 39.71 |
| 002.0 | 001.9892 | 0018.5 | 012.0 | | 171.3 | 000.0510 | 0558.0 | 069.8 | 39.73 |
| 003.0 | 002.0160 | 0017.9 | 012.0 | | 171.1 | 000.0514 | 0557.6 | 069.8 | 39.76 |
| 004.0 | 002.0340 | 0017.3 | 012.1 | | 171.0 | 000.0518 | 0557.0 | 069.8 | 39.77 |
| 005.0 | 002.0521 | 0016.3 | 012.1 | | 170.8 | 000.0522 | 0556.3 | 069.9 | 39.78 |
| 006.0 | 002.0703 | 0015.4 | 012.1 | | 170.6 | 000.0525 | 0555.4 | 069.9 | 39.79 |
| 007.0 | 002.0885 | 0014.7 | 012.1 | | 170.4 | 000.0529 | 0554.5 | 069.9 | 39.79 |

| | | | | | | | | | |
|-------|----------|---------|-------|--|-------|----------|--------|-------|-------|
| 008.0 | 002.1160 | 0014.3 | 012.2 | | 170.3 | 000.0533 | 0553.4 | 069.9 | 39.79 |
| 009.0 | 002.1344 | 0014.0 | 012.2 | | 170.1 | 000.0537 | 0552.3 | 070.0 | 39.78 |
| 010.0 | 002.1530 | 0013.2 | 012.2 | | 169.9 | 000.0541 | 0551.2 | 070.0 | 39.78 |
| 011.0 | 002.2090 | 0012.0 | 012.3 | | 169.7 | 000.0545 | 0550.0 | 070.0 | 39.79 |
| 012.0 | 002.2658 | 0010.8 | 012.4 | | 169.5 | 000.0549 | 0548.6 | 070.1 | 39.79 |
| 013.0 | 002.3232 | 0009.9 | 012.4 | | 169.4 | 000.0554 | 0547.1 | 070.1 | 39.78 |
| 014.0 | 002.3814 | 0009.1 | 012.5 | | 169.2 | 000.0558 | 0545.5 | 070.1 | 39.78 |
| 015.0 | 002.4404 | 0007.7 | 012.6 | | 169.0 | 000.0562 | 0544.1 | 070.1 | 39.77 |
| 016.0 | 002.5100 | 0006.3 | 012.7 | | 168.8 | 000.0567 | 0542.8 | 070.1 | 39.77 |
| 017.0 | 002.5705 | 0005.6 | 012.7 | | 168.6 | 000.0571 | 0541.7 | 070.2 | 39.77 |
| 018.0 | 002.6317 | 0006.1 | 012.8 | | 168.4 | 000.0576 | 0540.8 | 070.2 | 39.77 |
| 019.0 | 002.6936 | 0007.0 | 012.9 | | 168.2 | 000.0580 | 0539.8 | 070.3 | 39.76 |
| 020.0 | 002.7562 | 0007.3 | 013.0 | | 168.0 | 000.0585 | 0538.9 | 070.3 | 39.75 |
| 021.0 | 002.8516 | 0007.0 | 013.1 | | 167.8 | 000.0590 | 0537.9 | 070.4 | 39.76 |
| 022.0 | 002.9594 | 0006.3 | 013.2 | | 167.6 | 000.0595 | 0537.0 | 070.4 | 39.76 |
| 023.0 | 003.0581 | 0005.8 | 013.3 | | 167.4 | 000.0600 | 0536.0 | 070.4 | 39.76 |
| 024.0 | 003.1697 | 0005.5 | 013.4 | | 167.2 | 000.0605 | 0535.0 | 070.5 | 39.75 |
| 025.0 | 003.2718 | 0005.2 | 013.5 | | 167.0 | 000.0610 | 0534.1 | 070.6 | 39.74 |
| 026.0 | 003.3756 | 0004.6 | 013.6 | | 166.8 | 000.0615 | 0533.2 | 070.6 | 39.74 |
| 027.0 | 003.4928 | 0004.1 | 013.7 | | 166.6 | 000.0620 | 0532.4 | 070.7 | 39.73 |
| 028.0 | 003.6000 | 0003.6 | 013.8 | | 166.4 | 000.0625 | 0531.5 | 070.8 | 39.72 |
| 029.0 | 003.7210 | 0002.7 | 013.9 | | 166.2 | 000.0630 | 0530.7 | 070.8 | 39.70 |
| 030.0 | 003.8316 | 0001.2 | 014.0 | | 166.0 | 000.0635 | 0529.9 | 070.9 | 39.69 |
| 031.0 | 003.9942 | -0000.7 | 014.2 | | 165.8 | 000.0640 | 0529.0 | 071.0 | 39.68 |
| 032.0 | 004.1732 | -0002.3 | 014.3 | | 165.5 | 000.0646 | 0528.0 | 071.1 | 39.67 |
| 033.0 | 004.3428 | -0002.7 | 014.5 | | 165.3 | 000.0652 | 0527.0 | 071.2 | 39.65 |
| 034.0 | 004.5158 | -0001.4 | 014.6 | | 165.1 | 000.0657 | 0526.1 | 071.3 | 39.64 |
| 035.0 | 004.7060 | 0000.5 | 014.8 | | 164.9 | 000.0663 | 0525.0 | 071.4 | 39.62 |
| 036.0 | 004.8860 | 0001.9 | 014.9 | | 164.7 | 000.0669 | 0524.0 | 071.5 | 39.59 |
| 037.0 | 005.0694 | 0002.9 | 015.1 | | 164.4 | 000.0675 | 0523.0 | 071.6 | 39.56 |
| 038.0 | 005.2563 | 0004.1 | 015.2 | | 164.2 | 000.0680 | 0522.1 | 071.7 | 39.54 |
| 039.0 | 005.4612 | 0005.5 | 015.4 | | 164.0 | 000.0686 | 0521.2 | 071.8 | 39.51 |
| 040.0 | 005.6550 | 0007.2 | 015.5 | | 163.8 | 000.0692 | 0520.4 | 072.0 | 39.48 |
| 041.0 | 005.9136 | 0008.9 | 015.7 | | 163.5 | 000.0698 | 0519.5 | 072.1 | 39.45 |
| 042.0 | 006.1937 | 0010.2 | 015.9 | | 163.3 | 000.0705 | 0518.5 | 072.2 | 39.43 |
| 043.0 | 006.4642 | 0011.1 | 016.1 | | 163.0 | 000.0711 | 0517.6 | 072.4 | 39.40 |
| 044.0 | 006.7568 | 0011.5 | 016.3 | | 162.8 | 000.0718 | 0516.6 | 072.5 | 39.36 |
| 045.0 | 007.0392 | 0011.8 | 016.5 | | 162.6 | 000.0724 | 0515.7 | 072.7 | 39.33 |
| 046.0 | 007.3445 | 0011.9 | 016.7 | | 162.3 | 000.0731 | 0514.8 | 072.8 | 39.29 |
| 047.0 | 007.6388 | 0012.0 | 016.9 | | 162.1 | 000.0737 | 0514.0 | 073.0 | 39.24 |
| 048.0 | 007.9566 | 0011.9 | 017.0 | | 161.9 | 000.0743 | 0513.2 | 073.2 | 39.20 |
| 049.0 | 008.2810 | 0011.7 | 017.2 | | 161.6 | 000.0749 | 0512.4 | 073.4 | 39.15 |
| 050.0 | 008.5933 | 0011.6 | 017.4 | | 161.4 | 000.0755 | 0511.7 | 073.6 | 39.09 |
| 051.0 | 008.7236 | 0011.5 | 017.5 | | 161.3 | 000.0759 | 0511.3 | 073.9 | 39.01 |
| 052.0 | 008.8736 | 0011.7 | 017.6 | | 161.1 | 000.0762 | 0511.0 | 074.2 | 38.94 |

09-26-2021 Terrain Data: NGDC 30 SEC FMOver Analysis

KQBM BLED20140218AAR

KZCF.C

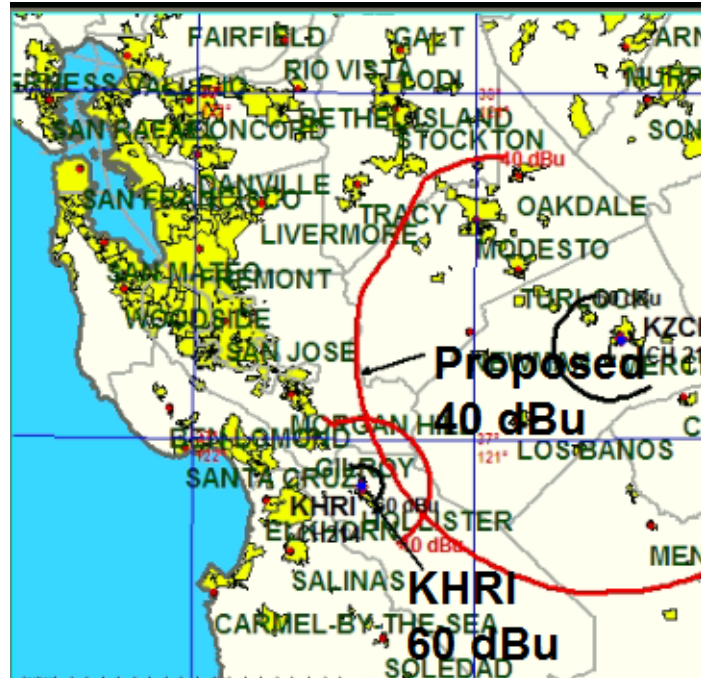
Channel = 214A
 Max ERP = 0.1 kW
 RCAMSL = 873 m
 N. Lat. 38 01 22.70
 W. Lng. 120 35 29.70
 Protected
 60 dBu

Channel = 214B1
 Max ERP = 10 kW
 RCAMSL = 87.7 m
 N. Lat. 37 17 40.00
 W. Lng. 120 28 36.30
 Interfering
 40 dBu

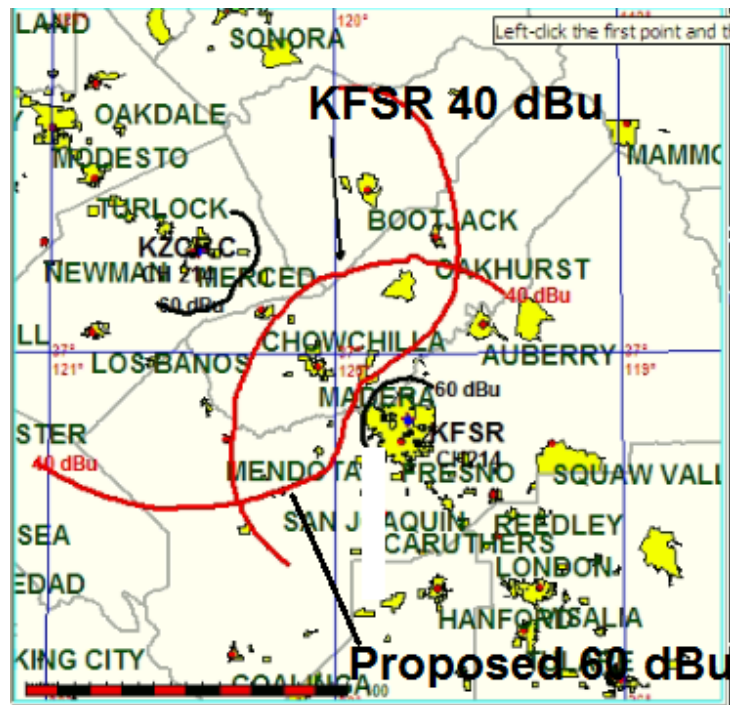
| Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Azimuth (degrees) | ERP (kW) | HAAT (m) | Dist (km) | Actual (dBu) | IX (km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|-----------------|------------|
| 113.0 | 000.1000 | 0503.7 | 023.3 | 009.0 | 002.1351 | 0013.9 | 072.8 | 34.71 | |
| 114.0 | 000.1000 | 0506.8 | 023.4 | 009.0 | 002.1348 | 0014.0 | 072.3 | 34.79 | |
| 115.0 | 000.1000 | 0507.8 | 023.5 | 009.0 | 002.1336 | 0014.0 | 071.9 | 34.86 | |
| 116.0 | 000.1000 | 0506.4 | 023.4 | 008.8 | 002.1313 | 0014.0 | 071.6 | 34.92 | |
| 117.0 | 000.1000 | 0503.8 | 023.4 | 008.7 | 002.1284 | 0014.1 | 071.2 | 34.98 | |
| 118.0 | 000.1000 | 0501.8 | 023.3 | 008.5 | 002.1256 | 0014.1 | 070.8 | 35.04 | |
| 119.0 | 000.1000 | 0501.9 | 023.3 | 008.4 | 002.1236 | 0014.2 | 070.4 | 35.11 | |
| 120.0 | 000.1000 | 0503.8 | 023.4 | 008.3 | 002.1222 | 0014.2 | 070.0 | 35.17 | |
| 121.0 | 000.1000 | 0506.7 | 023.4 | 008.3 | 002.1210 | 0014.2 | 069.6 | 35.25 | |
| 122.0 | 000.1000 | 0511.4 | 023.6 | 008.2 | 002.1204 | 0014.2 | 069.2 | 35.32 | |
| 123.0 | 000.1000 | 0518.4 | 023.8 | 008.2 | 002.1206 | 0014.2 | 068.7 | 35.40 | |
| 124.0 | 000.1000 | 0527.4 | 024.0 | 008.3 | 002.1213 | 0014.2 | 068.3 | 35.49 | |
| 125.0 | 000.1000 | 0535.4 | 024.2 | 008.3 | 002.1213 | 0014.2 | 067.8 | 35.58 | |
| 126.0 | 000.1000 | 0541.9 | 024.4 | 008.3 | 002.1207 | 0014.2 | 067.3 | 35.66 | |
| 127.0 | 000.1000 | 0548.4 | 024.6 | 008.2 | 002.1198 | 0014.2 | 066.9 | 35.74 | |
| 128.0 | 000.1000 | 0555.3 | 024.7 | 008.2 | 002.1188 | 0014.2 | 066.4 | 35.82 | |
| 129.0 | 000.1000 | 0562.4 | 024.9 | 008.1 | 002.1177 | 0014.3 | 066.0 | 35.91 | |
| 130.0 | 000.1000 | 0568.4 | 025.1 | 008.0 | 002.1160 | 0014.3 | 065.5 | 35.99 | |
| 131.0 | 000.1000 | 0574.4 | 025.2 | 007.9 | 002.1132 | 0014.3 | 065.1 | 36.06 | |
| 132.0 | 000.1000 | 0581.3 | 025.4 | 007.8 | 002.1105 | 0014.3 | 064.6 | 36.14 | |
| 133.0 | 000.1000 | 0588.2 | 025.5 | 007.7 | 002.1074 | 0014.4 | 064.2 | 36.22 | |
| 134.0 | 000.1000 | 0592.6 | 025.6 | 007.5 | 002.1029 | 0014.4 | 063.7 | 36.29 | |
| 135.0 | 000.1000 | 0592.7 | 025.6 | 007.3 | 002.0963 | 0014.5 | 063.4 | 36.35 | |
| 136.0 | 000.1000 | 0587.8 | 025.5 | 007.0 | 002.0877 | 0014.7 | 063.1 | 36.39 | |
| 137.0 | 000.1000 | 0578.0 | 025.3 | 006.5 | 002.0801 | 0015.0 | 062.9 | 36.41 | |
| 138.0 | 000.1000 | 0563.3 | 024.9 | 006.0 | 002.0710 | 0015.4 | 062.8 | 36.41 | |
| 139.0 | 000.1000 | 0545.6 | 024.5 | 005.5 | 002.0607 | 0015.8 | 062.8 | 36.39 | |
| 140.0 | 000.1000 | 0528.1 | 024.0 | 004.9 | 002.0504 | 0016.4 | 062.8 | 36.36 | |
| 141.0 | 000.1000 | 0514.4 | 023.7 | 004.4 | 002.0411 | 0017.0 | 062.8 | 36.35 | |
| 142.0 | 000.1000 | 0506.2 | 023.4 | 004.0 | 002.0335 | 0017.4 | 062.7 | 36.35 | |
| 143.0 | 000.1000 | 0504.1 | 023.4 | 003.7 | 002.0277 | 0017.6 | 062.5 | 36.38 | |
| 144.0 | 000.1000 | 0504.6 | 023.4 | 003.4 | 002.0227 | 0017.7 | 062.2 | 36.43 | |
| 145.0 | 000.1000 | 0506.9 | 023.4 | 003.1 | 002.0181 | 0017.8 | 061.9 | 36.48 | |
| 146.0 | 000.1000 | 0510.1 | 023.5 | 002.9 | 002.0124 | 0017.9 | 061.6 | 36.53 | |
| 147.0 | 000.1000 | 0515.9 | 023.7 | 002.6 | 002.0065 | 0018.1 | 061.2 | 36.59 | |
| 148.0 | 000.1000 | 0522.5 | 023.9 | 002.4 | 002.0006 | 0018.2 | 060.8 | 36.66 | |
| 149.0 | 000.1000 | 0529.4 | 024.1 | 002.2 | 001.9944 | 0018.4 | 060.4 | 36.72 | |
| 150.0 | 000.1000 | 0534.9 | 024.2 | 001.9 | 001.9880 | 0018.6 | 060.0 | 36.78 | |
| 151.0 | 000.0978 | 0536.7 | 024.1 | 001.5 | 001.9811 | 0018.8 | 059.9 | 36.80 | |
| 152.0 | 000.0957 | 0535.1 | 024.0 | 001.1 | 001.9735 | 0019.1 | 059.8 | 36.79 | |
| 153.0 | 000.0936 | 0532.1 | 023.8 | 000.7 | 001.9656 | 0019.4 | 059.8 | 36.78 | |
| 154.0 | 000.0915 | 0528.4 | 023.5 | 000.2 | 001.9576 | 0019.7 | 059.8 | 36.76 | |
| 155.0 | 000.0894 | 0523.5 | 023.3 | 359.8 | 001.9727 | 0019.8 | 059.9 | 36.78 | |
| 156.0 | 000.0873 | 0518.6 | 023.0 | 359.3 | 002.0092 | 0019.9 | 060.0 | 36.84 | |
| 157.0 | 000.0853 | 0514.6 | 022.8 | 358.9 | 002.0448 | 0019.9 | 060.0 | 36.90 | |
| 158.0 | 000.0833 | 0511.8 | 022.6 | 358.4 | 002.0795 | 0020.0 | 060.1 | 36.97 | |
| 159.0 | 000.0813 | 0509.7 | 022.4 | 358.0 | 002.1136 | 0020.0 | 060.2 | 37.03 | |
| 160.0 | 000.0794 | 0509.1 | 022.2 | 357.6 | 002.1499 | 0020.1 | 060.2 | 37.10 | |
| 161.0 | 000.0766 | 0510.6 | 022.1 | 357.2 | 002.1866 | 0020.2 | 060.2 | 37.16 | |
| 162.0 | 000.0739 | 0513.7 | 022.0 | 356.9 | 002.2210 | 0020.3 | 060.2 | 37.23 | |
| 163.0 | 000.0712 | 0517.4 | 021.8 | 356.5 | 002.2531 | 0020.5 | 060.2 | 37.29 | |
| 164.0 | 000.0686 | 0521.3 | 021.7 | 356.1 | 002.2852 | 0020.6 | 060.2 | 37.35 | |
| 165.0 | 000.0660 | 0525.6 | 021.6 | 355.7 | 002.3173 | 0020.8 | 060.3 | 37.41 | |
| 166.0 | 000.0635 | 0529.9 | 021.5 | 355.4 | 002.3494 | 0020.9 | 060.3 | 37.46 | |
| 167.0 | 000.0610 | 0534.0 | 021.4 | 355.0 | 002.3817 | 0021.1 | 060.4 | 37.50 | |
| 168.0 | 000.0586 | 0538.7 | 021.3 | 354.6 | 002.4138 | 0021.2 | 060.4 | 37.55 | |
| 169.0 | 000.0562 | 0544.2 | 021.2 | 354.3 | 002.4457 | 0021.4 | 060.5 | 37.60 | |

| | | | | | | | | | |
|-------|----------|--------|-------|--|-------|----------|--------|-------|-------|
| 170.0 | 000.0539 | 0551.8 | 021.2 | | 353.9 | 002.4773 | 0021.6 | 060.5 | 37.65 |
| 171.0 | 000.0517 | 0557.2 | 021.1 | | 353.6 | 002.5091 | 0021.8 | 060.6 | 37.69 |
| 172.0 | 000.0495 | 0558.0 | 020.9 | | 353.2 | 002.5409 | 0022.0 | 060.8 | 37.70 |
| 173.0 | 000.0474 | 0553.9 | 020.5 | | 352.9 | 002.5733 | 0022.2 | 061.1 | 37.69 |
| 174.0 | 000.0454 | 0549.9 | 020.2 | | 352.5 | 002.6067 | 0022.3 | 061.4 | 37.68 |
| 175.0 | 000.0434 | 0551.9 | 020.0 | | 352.2 | 002.6394 | 0022.5 | 061.6 | 37.69 |
| 176.0 | 000.0414 | 0557.0 | 019.9 | | 351.9 | 002.6710 | 0022.6 | 061.8 | 37.71 |
| 177.0 | 000.0395 | 0563.8 | 019.8 | | 351.6 | 002.7001 | 0022.8 | 061.9 | 37.74 |
| 178.0 | 000.0376 | 0570.6 | 019.7 | | 351.3 | 002.7287 | 0022.9 | 062.1 | 37.75 |
| 179.0 | 000.0358 | 0578.0 | 019.6 | | 351.0 | 002.7571 | 0023.0 | 062.2 | 37.77 |
| 180.0 | 000.0340 | 0585.4 | 019.4 | | 350.7 | 002.7848 | 0023.2 | 062.4 | 37.78 |
| 181.0 | 000.0326 | 0591.2 | 019.3 | | 350.4 | 002.8124 | 0023.3 | 062.5 | 37.79 |
| 182.0 | 000.0312 | 0597.1 | 019.2 | | 350.1 | 002.8394 | 0023.4 | 062.7 | 37.80 |
| 183.0 | 000.0299 | 0602.9 | 019.1 | | 349.9 | 002.8658 | 0023.5 | 062.9 | 37.80 |
| 184.0 | 000.0286 | 0604.4 | 018.9 | | 349.6 | 002.8898 | 0023.6 | 063.2 | 37.78 |
| 185.0 | 000.0274 | 0603.2 | 018.7 | | 349.4 | 002.9117 | 0023.7 | 063.5 | 37.75 |
| 186.0 | 000.0261 | 0601.4 | 018.4 | | 349.2 | 002.9322 | 0023.8 | 063.9 | 37.71 |
| 187.0 | 000.0249 | 0601.9 | 018.2 | | 349.0 | 002.9530 | 0023.9 | 064.2 | 37.68 |
| 188.0 | 000.0237 | 0604.7 | 018.0 | | 348.7 | 002.9758 | 0023.9 | 064.5 | 37.66 |
| 189.0 | 000.0226 | 0608.0 | 017.8 | | 348.6 | 002.9975 | 0024.0 | 064.8 | 37.64 |
| 190.0 | 000.0214 | 0610.7 | 017.5 | | 348.4 | 003.0178 | 0024.1 | 065.1 | 37.61 |
| 191.0 | 000.0206 | 0612.9 | 017.4 | | 348.2 | 003.0386 | 0024.2 | 065.4 | 37.59 |
| 192.0 | 000.0197 | 0613.7 | 017.2 | | 348.0 | 003.0574 | 0024.2 | 065.7 | 37.56 |
| 193.0 | 000.0189 | 0612.7 | 016.9 | | 347.9 | 003.0723 | 0024.3 | 066.0 | 37.52 |
| 194.0 | 000.0181 | 0611.4 | 016.7 | | 347.7 | 003.0859 | 0024.3 | 066.4 | 37.47 |
| 195.0 | 000.0173 | 0610.2 | 016.4 | | 347.6 | 003.0984 | 0024.4 | 066.7 | 37.42 |
| 196.0 | 000.0165 | 0608.6 | 016.2 | | 347.5 | 003.1094 | 0024.4 | 067.1 | 37.37 |
| 197.0 | 000.0157 | 0606.5 | 015.9 | | 347.4 | 003.1190 | 0024.4 | 067.4 | 37.32 |
| 198.0 | 000.0150 | 0603.9 | 015.6 | | 347.3 | 003.1271 | 0024.4 | 067.8 | 37.26 |
| 199.0 | 000.0143 | 0600.8 | 015.3 | | 347.2 | 003.1341 | 0024.4 | 068.2 | 37.20 |
| 200.0 | 000.0135 | 0597.7 | 015.0 | | 347.2 | 003.1398 | 0024.5 | 068.6 | 37.14 |
| 201.0 | 000.0130 | 0594.3 | 014.8 | | 347.1 | 003.1469 | 0024.5 | 068.9 | 37.08 |
| 202.0 | 000.0124 | 0590.3 | 014.5 | | 347.1 | 003.1525 | 0024.5 | 069.3 | 37.03 |
| 203.0 | 000.0119 | 0585.6 | 014.3 | | 347.0 | 003.1570 | 0024.5 | 069.7 | 36.97 |
| 204.0 | 000.0114 | 0581.4 | 014.0 | | 347.0 | 003.1609 | 0024.5 | 070.0 | 36.91 |
| 205.0 | 000.0109 | 0576.9 | 013.8 | | 346.9 | 003.1640 | 0024.5 | 070.4 | 36.85 |
| 206.0 | 000.0104 | 0571.3 | 013.5 | | 346.9 | 003.1654 | 0024.5 | 070.7 | 36.79 |
| 207.0 | 000.0099 | 0564.6 | 013.2 | | 346.9 | 003.1656 | 0024.5 | 071.1 | 36.73 |
| 208.0 | 000.0094 | 0558.7 | 013.0 | | 346.9 | 003.1655 | 0024.5 | 071.4 | 36.66 |
| 209.0 | 000.0090 | 0554.5 | 012.7 | | 346.9 | 003.1659 | 0024.5 | 071.8 | 36.60 |
| 210.0 | 000.0085 | 0551.9 | 012.5 | | 346.9 | 003.1666 | 0024.5 | 072.1 | 36.55 |
| 211.0 | 000.0082 | 0550.8 | 012.3 | | 346.9 | 003.1699 | 0024.5 | 072.3 | 36.50 |
| 212.0 | 000.0078 | 0551.7 | 012.2 | | 346.8 | 003.1737 | 0024.5 | 072.6 | 36.46 |
| 213.0 | 000.0075 | 0553.7 | 012.0 | | 346.8 | 003.1773 | 0024.5 | 072.8 | 36.42 |
| 214.0 | 000.0072 | 0555.2 | 011.9 | | 346.8 | 003.1802 | 0024.5 | 073.1 | 36.38 |
| 215.0 | 000.0069 | 0555.3 | 011.7 | | 346.8 | 003.1814 | 0024.5 | 073.4 | 36.33 |
| 216.0 | 000.0066 | 0553.6 | 011.5 | | 346.8 | 003.1810 | 0024.5 | 073.6 | 36.28 |
| 217.0 | 000.0063 | 0551.0 | 011.3 | | 346.8 | 003.1796 | 0024.5 | 073.9 | 36.23 |
| 218.0 | 000.0060 | 0548.4 | 011.1 | | 346.8 | 003.1776 | 0024.5 | 074.2 | 36.18 |
| 219.0 | 000.0057 | 0547.0 | 011.0 | | 346.8 | 003.1755 | 0024.5 | 074.5 | 36.13 |
| 220.0 | 000.0054 | 0547.0 | 010.8 | | 346.9 | 003.1736 | 0024.5 | 074.7 | 36.08 |
| 221.0 | 000.0052 | 0548.0 | 010.7 | | 346.8 | 003.1767 | 0024.5 | 074.9 | 36.05 |
| 222.0 | 000.0051 | 0549.0 | 010.6 | | 346.8 | 003.1794 | 0024.5 | 075.1 | 36.01 |
| 223.0 | 000.0049 | 0549.1 | 010.5 | | 346.8 | 003.1812 | 0024.5 | 075.3 | 35.98 |
| 224.0 | 000.0048 | 0548.4 | 010.4 | | 346.8 | 003.1823 | 0024.5 | 075.5 | 35.94 |
| 225.0 | 000.0047 | 0547.4 | 010.3 | | 346.8 | 003.1828 | 0024.5 | 075.7 | 35.90 |
| 226.0 | 000.0045 | 0546.9 | 010.2 | | 346.8 | 003.1831 | 0024.5 | 076.0 | 35.86 |
| 227.0 | 000.0044 | 0546.9 | 010.1 | | 346.8 | 003.1833 | 0024.5 | 076.2 | 35.83 |
| 228.0 | 000.0043 | 0546.8 | 010.0 | | 346.8 | 003.1829 | 0024.5 | 076.4 | 35.79 |
| 229.0 | 000.0041 | 0546.0 | 009.9 | | 346.8 | 003.1820 | 0024.5 | 076.6 | 35.75 |
| 230.0 | 000.0040 | 0544.7 | 009.8 | | 346.8 | 003.1804 | 0024.5 | 076.8 | 35.71 |

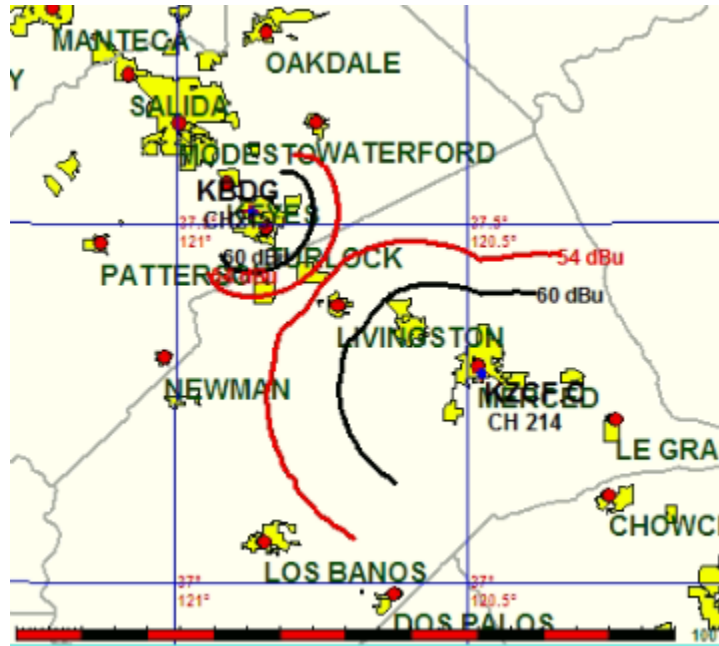
| | | | | | | | | | |
|-------|----------|--------|-------|--|-------|----------|--------|-------|-------|
| 231.0 | 000.0040 | 0543.1 | 009.7 | | 346.8 | 003.1828 | 0024.5 | 076.9 | 35.68 |
| 232.0 | 000.0039 | 0541.7 | 009.7 | | 346.7 | 003.1849 | 0024.5 | 077.1 | 35.65 |



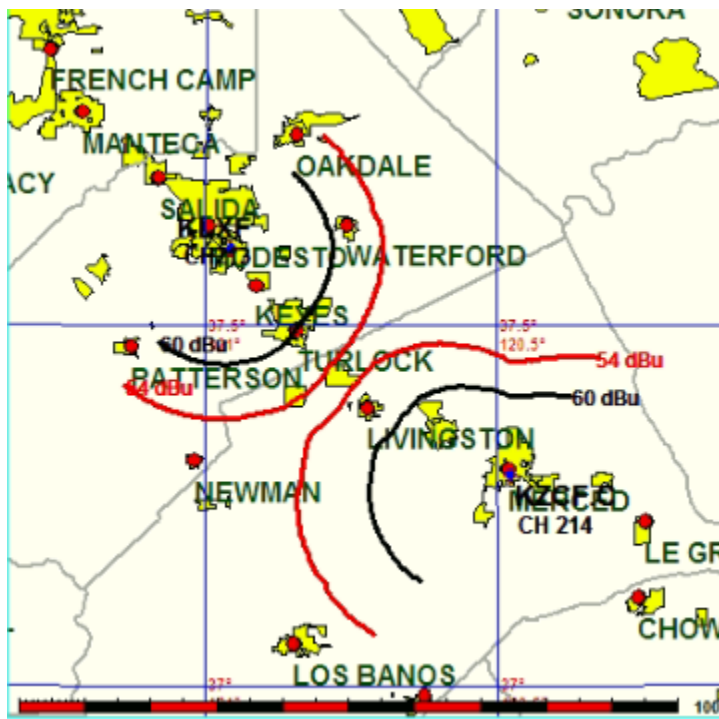
CO CHANNEL : KHRI 60dbu v 40dbu



CO CHANNEL : KFSR 60dbu v 40dbu



FIRST ADJ: KBDG 54dbu v 60dbu



FIRST ADJ: KLXF 54dbu v 60dbu

NON-IONIZING ELECTROMAGNETIC RADIATION ANALYSIS

The ERP for the proposed will be 10 kW. The antenna will be colocated on at a professional tower site.

The OER program FM Model for Windows Vers 2.1 Beta was used to determine the maximum predicted RF exposure. The settings used were:

| | |
|----------------------|------------------------|
| Antenna: | Phelps Dodge Ring Stub |
| Horizontal ERP (kW): | 10kw |
| Vertical ERP (kW): | 0 |
| Antenna Height (M): | 36.5 |
| Elements: | 2 |
| Spacing: | 1 |

Max: 77.9 $\mu\text{W}/\text{cm}^2$ at 19.5 m

Also on the tower is translator K264AL with a SWR FMEC-2 antenna, which is similar to a 2-bay Jampro Penetrator

| | |
|---------------------|-----------------|
| Antenna: | Jampro Double V |
| Horizontal ERP (W): | 120 |
| Vertical ERP (W): | 120 |
| Antenna Height (M): | 30 |
| Elements: | 2 |
| Spacing: | 1 |

Max: 6.1 $\mu\text{W}/\text{cm}^2$ at 7 m

Using these settings, the maximum predicted RF exposure for a human standing on the ground would be 84 $\mu\text{W}/\text{cm}^2$. This represents less than 42% of the FCC Maximum Permissible Exposure (MPE) of 200 $\mu\text{W}/\text{cm}^2$ for uncontrolled environments.

Tower is closed to the public in a remote area. The site has all necessary RF exposure hazards to tower climbers posted. If and when climbing the tower is necessary, transmitter power will be reduced or operation will cease, as necessary. This will be in cooperation with

the other emitters on the tower so as not to exceed the MPE for the climbers.

ANTENNA PATTERN

| Azi | Field | dBk | kw |
|-----|-------|--------|--------|
| 000 | 0.442 | 02.908 | 1.954 |
| 010 | 0.464 | 03.330 | 2.153 |
| 020 | 0.525 | 04.403 | 2.756 |
| 030 | 0.619 | 05.834 | 3.832 |
| 040 | 0.752 | 07.524 | 5.655 |
| 050 | 0.927 | 09.342 | 8.593 |
| 060 | 1.000 | 10.000 | 10.000 |
| 070 | 1.000 | 10.000 | 10.000 |
| 080 | 1.000 | 10.000 | 10.000 |
| 090 | 1.000 | 10.000 | 10.000 |
| 100 | 1.000 | 10.000 | 10.000 |
| 110 | 0.915 | 09.228 | 8.372 |
| 120 | 0.799 | 08.051 | 6.384 |
| 130 | 0.729 | 07.255 | 5.314 |
| 140 | 0.813 | 08.202 | 6.610 |
| 150 | 1.000 | 10.000 | 10.000 |
| 160 | 1.000 | 10.000 | 10.000 |
| 170 | 1.000 | 10.000 | 10.000 |
| 180 | 1.000 | 10.000 | 10.000 |
| 190 | 1.000 | 10.000 | 10.000 |
| 200 | 1.000 | 10.000 | 10.000 |
| 210 | 1.000 | 10.000 | 10.000 |
| 220 | 1.000 | 10.000 | 10.000 |
| 230 | 1.000 | 10.000 | 10.000 |
| 240 | 0.983 | 09.851 | 9.663 |
| 250 | 1.000 | 10.000 | 10.000 |
| 260 | 1.000 | 10.000 | 10.000 |
| 270 | 1.000 | 10.000 | 10.000 |
| 280 | 1.000 | 10.000 | 10.000 |
| 290 | 0.908 | 09.162 | 8.245 |
| 300 | 0.923 | 09.304 | 8.519 |
| 310 | 1.000 | 10.000 | 10.000 |
| 320 | 0.885 | 08.939 | 7.832 |
| 330 | 0.764 | 07.662 | 5.837 |
| 340 | 0.627 | 05.945 | 3.931 |
| 350 | 0.534 | 04.551 | 2.852 |

