

Channel Study

| REFERENCE | | CH# 209D - 89.7 MHz, Pwr= 0.009 kW, HAAT=390.2M, COR= 1099 M | | | | | | | | DISPLAY DATES | |
|-------------------------------|---------------|---|-----------------------|---------------|---------------|------------------------------------|--------------------|----------|-----------------|---------------|----------|
| 35 26 17 N. | | Average Protected F(50-50)= 11.1 km | | | | | | | | DATA | 05-06-06 |
| 118 44 22 W. | | Ave. F(50-10) 40 dBu= 38.1 54 dBu= 16.1 80 dBu= 2.0 100 dBu= .2 | | | | | | | | SEARCH | 05-09-06 |
| CH | CALL | TYPE | AZI. | DIST | LAT. | Pwr(kW) | COR(M) | PRO(km) | *IN* | *OUT* | |
| CITY | STATE | | <-- | FILE # | LNG. | HAAT(M) | INT(km) | LICENSEE | (Overlap in km) | | |
| 211B KTQX Bakersfield | LIC CN CA | 82.9 13.64 263.0 BLED19961031KA | 35 27 11 118 35 25 | 0.570 1187 | 2326 1.6 | 53.5 Radio Bilingue, Inc. | 10.41 -39.88* | | | | |
| 206B1 KPRX Bakersfield | LIC CN CA | 291.6 14.58 111.5 BLED19870219KB | 35 29 10 118 53 20 | 11.000 -92 | 515 1.9 | 18.6 White Ash Broadcasting, In | 6.28 -4.07* | | | | |
| 209D K209DN Mcfarland | LIC C CA | 297.2 47.33 117.0 BLFT20000419ACF | 35 37 54 119 12 16 | 0.010 -48 | 152 10.2 | 3.2 Paulino Bernal Evangelism | 32.56 19.52 | | | | |
| 209B KGBM Randsburg | LIC CX CA | 87.0 94.51 267.6 BLED20031201ANV | 35 28 39 117 41 58 | 1.800 219 | 1359 85.7 | 30.7 Educational Media Foundati | 7.22 59.92 | | | | |
| 208D K208CY Edison | LIC CN CA | 180.0 0.03 0.0 BLFT19980617TE | 35 26 16 118 44 22 | 0.010 253 | 1097 13.0 | 9.3 Educational Media Foundati | -22.21* -24.50* | | | | |
| 209D K209CW Buttonwillow | LIC CN CA | 266.4 59.52 86.0 BLFT19990511UF | 35 24 10 119 23 36 | 0.080 27 | 119 17.4 | 5.3 Paulino Bernal Evangelism | 29.69 2.91 | | | | |
| 208B KGLV.A Shafter | APP DVX CA | 286.7 69.17 106.3 BMPED20060425AAX | 35 36 52 119 28 15 | 50.000 97 | 188 69.2 | 44.2 Educational Media Foundati | -7.85 11.55 | | | | |
| 208B KGLV Shafter | CP DVN CA | 284.0 71.45 103.5 BNPED20000518ACI | 35 35 25 119 30 17 | 8.820 141 | 227 54.5 | 36.2 Educational Media Foundati | 8.38 20.13 | | | | |
| 209D K209CN Gorman | LIC CN CA | 179.2 76.93 359.2 BLFT19990201TC | 34 44 41 118 43 37 | 0.010 269 | 1391 31.8 | 9.6 Santa Monica Community Col | 36.09 29.60 | | | | |
| 207D K207DJ Lake Isabella | LIC DV CA | 28.7 33.93 208.8 BLFT20021115AAG | 35 42 21 118 33 31 | 0.003 523 | 2190 0.1 | 8.7 Calvary Chapel Of Twin Fal | 29.94 25.17 | | | | |
| 209B KHFR Santa Maria | LIC DVX CA | 246.4 144.16 65.5 BLED20050615ACJ | 34 54 37 120 11 08 | 2.450 408 | 1005 111.1 | 43.7 Family Stations, Inc. | 18.66 45.48 | | | | |
| 207D K207DJ Lake Isabella | CP DV CA | 46.0 40.16 226.2 BPFT20030417AAZ | 35 41 18 118 25 10 | 0.004 277 | 1102 0.1 | 7.6 Calvary Chapel Of Twin Fal | 38.45 32.55 | | | | |
| 209B1 KARM Visalia | LIC CN CA | 352.3 134.18 172.1 BLED19900618KD | 36 38 10 118 56 32 | 1.000 725 | 1574 120.5 | 49.0 Harvest Broadcasting Compa | 12.62 79.22 | | | | |
| 208D K208EI Porterville | LIC C CA | 338.3 78.43 158.1 BLFT20040604ACQ | 36 05 38 119 03 47 | 0.010 7 | 157 4.4 | 3.2 Paulino Bernal Evangelism | 73.24 73.76 | | | | |
| 210B KWDS.C Kettleman City | CP DVX CA | 299.5 127.21 118.8 BMPED20050202AFK | 35 59 42 119 58 06 | 50.000 144 | 205 77.2 | 51.4 Horizon Christian Fellowsh | 46.20 68.92 | | | | |
| 207D AP207 Gorman | APP C CA | 179.2 76.93 359.2 BNPFT20000421AAE | 34 44 41 118 43 37 | 0.010 265 | 1387 0.2 | 9.5 Southern California Public | 67.69 67.29 | | | | |
| 06ZT NEW Tehachapi | AP N CA | 141.9 43.10 322.1 BNPTVL20000831BO | 35 07 57 118 26 49 | 3.000 228 | 1220 0.3 | 27.8 Pappas Telecasting Incorpo | 135.0R -91.9M• | | | | |
| 06ZT NEW Bakersfield | AP D N CA | 199.1 13.86 19.0 BNPTVL20000831BG | 35 19 12 118 47 22 | 3.000 169 | 312 6.3 | 11.0 Marcia T. Turner Tr/as Tur | 135.0R -121.1M | | | | |
| 06+T NEW Johannesburg | AP N CA | 94.5 100.23 275.1 BNPTVL20000829AX | 35 21 46 117 38 24 | 0.500 527 | 1293 1.0 | 31.2 Jeff Chang | 135.0R -34.8M• | | | | |
| 06ZT K61AJ Inyokern, Etc. | CP D N CA | 89.9 83.89 270.4 BPPTV20041129ABR | 35 26 10 117 48 56 | 3.000 895 | 1528 1.3 | 6.5 Roy William Mayhugh | 135.0R -51.1M• | | | | |
| 06-T NEW Caliente | AP N CA | 140.3 44.23 320.4 BNPTVL20000831BZ | 35 07 54 118 25 42 | 3.000 350 | 1374 0.3 | 32.0 Fiberlessnet, Inc. | 135.0R -90.8M• | | | | |

ERP and HAAT on direct-line with reference station.

• affixed to TV6 Margin= no direct-line contour overlap.

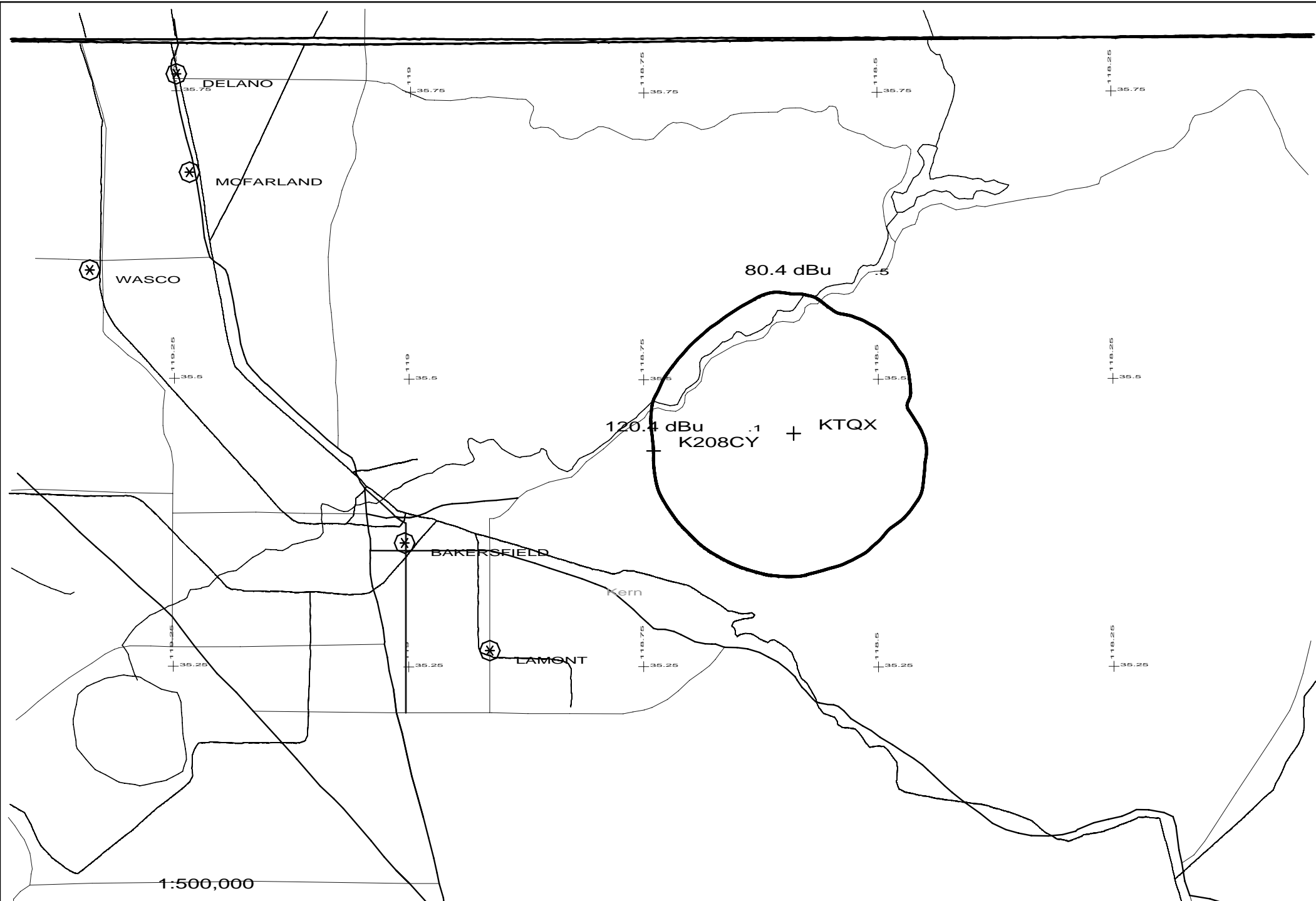
***affixed to 'IN' or 'Out' values = site inside protected contour.

Compliance with C.F.R. 74.1204

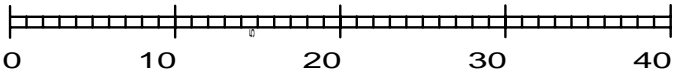
The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KTQX, channel 211B, Bakersfield, CA. The predicted F(50-50) field strength of KTQX at the proposed translator site is 80.4 dBu (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 120.4 dBu. This interfering contour extends approximately 20.1 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 25 meter level on a 88 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12D) which indicates a lack of structures near the proposed tower and therefore no structure tall enough to enter the 20.1 meter interference aperture.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.



Scale in km



K208CY 209D .009kW 1154M AMSL
N. Lat. 35 26 17 W. Lng. 118 44 22

K208CY vs. KTQX
EMF - 05/06

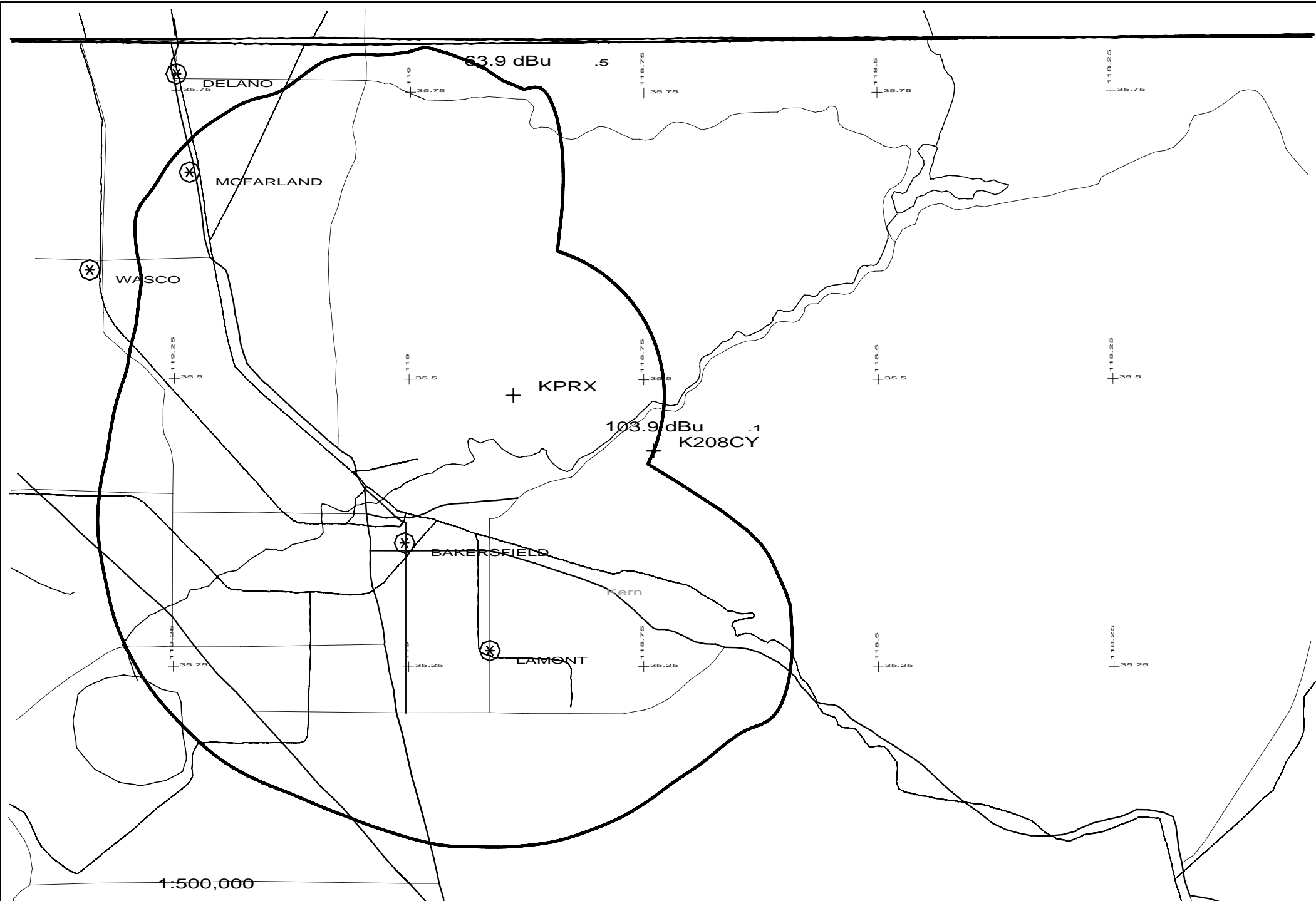
Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station KPRX, channel 206B1, Bakersfield, CA. The predicted F(50-50) field strength of KPRX at the proposed translator site is 63.9 dBu (see Exhibit 12B-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 103.9 dBu. This interfering contour extends approximately 134 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

Two factors have been investigated to determine this absence of population:

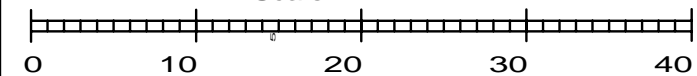
- 1.) Computer software which uses the centroid method of determining population centers, based on the 2000 census data, has determined that there are no persons within the area of overlap.
- 2.) Examination of the USGS topographic map (see Exhibit 12D) reveals no regularly occupied structures within the area of overlap.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.



1:500,000

Scale in km



K208CY 209D .009kW 1154M AMSL
N. Lat. 35 26 17 W. Lng. 118 44 22

K208CY vs. kprx
EMF - 05/06

FMCommander Allocation Study
05-09-2006

K208CY CH 209 D

0.009 kW 1099 M COR DA

Prot. = 60 dBu

Intef. = 40 dBu

K209CW CH 209 D

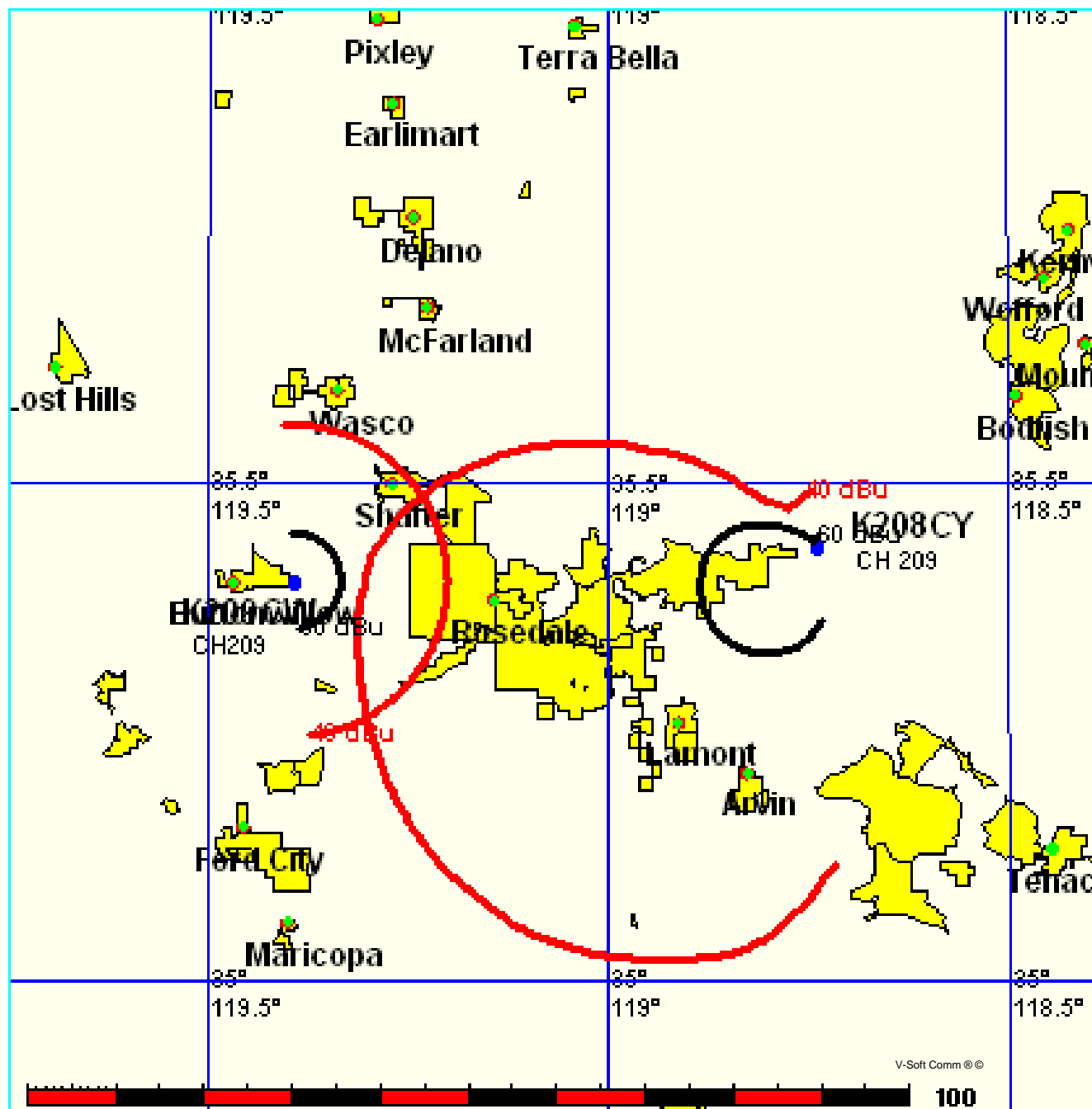
0.08 kW, 119 M COR

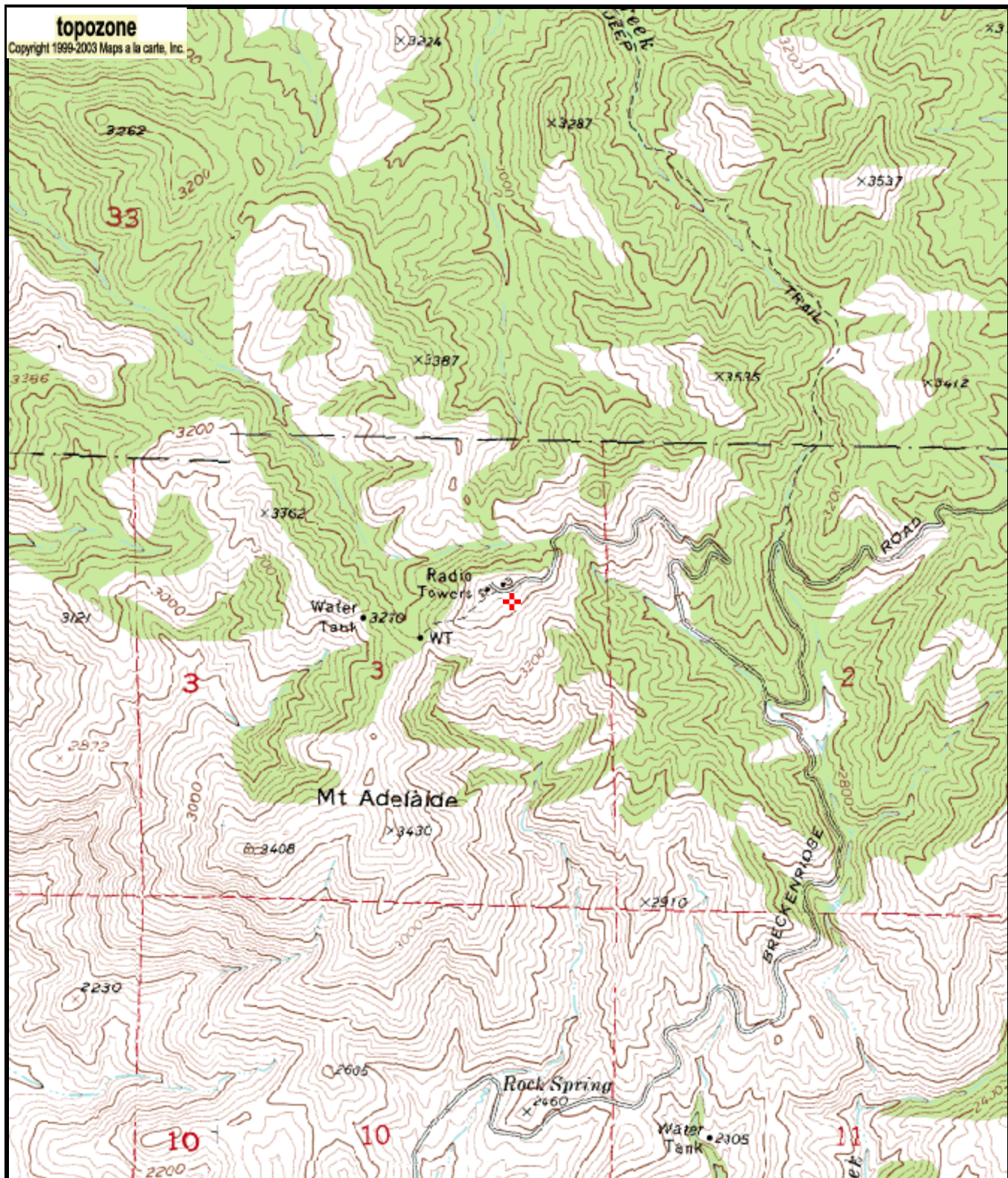
Prot. = 60 dBu

Intef. = 40 dBu

BLFT19990511UF

Scale = 1:1,125,000





Map center is 35° 26' 16"N, 118° 44' 22"W (NAD27)

MOUNT ADELAIDE quadrangle

Projection is UTM Zone 11 NAD83 Datum



M=13.949
G=-1.009