

Channel Study

REFERENCE CH# 209D - 89.7 MHz, Pwr= 0.009 kW, HAAT=445.2M, COR= 1154 M DISPLAY DATES
 35 26 17 N. Average Protected F(50-50)= 11.8 km DATA 05-06-06
 118 44 22 W. Ave. F(50-10) 40 dBu= 41.2 54 dBu= 17.6 80 dBu= 2.0 100 dBu= .2 SEARCH 05-08-06

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
211B Bakersfield	KTQX	LIC CN CA	82.9 263.0	13.64 BLED19961031KA	35 27 11 118 35 25	0.570 1187	2326 1.6	53.5 Radio Bilingue, Inc.	10.41	-39.88*
206B1 Bakersfield	KPRX	LIC CN CA	291.6 111.5	14.58 BLED19870219KB	35 29 10 118 53 20	11.000 -92	515 1.9	18.6 White Ash Broadcasting, In	6.19	-4.07*
209D Mcfarland	K209DN	LIC C CA	297.2 117.0	47.33 BLFT20000419ACF	35 37 54 119 12 16	0.010 -48	152 10.2	3.2 Paulino Bernal Evangelism	32.52	18.40
209B Randsburg	KGBM	LIC CX CA	87.0 267.6	94.51 BLED20031201ANV	35 28 39 117 41 58	1.800 219	1359 85.7	30.7 Educational Media Foundati	7.22	59.92
208D Edison	K208CY	LIC CN CA	180.0 0.0	0.03 BLFT19980617TE	35 26 16 118 44 22	0.010 253	1097 13.0	9.3 Educational Media Foundati	-22.41*	-25.31*
209D Buttonwillow	K209CW	LIC CN CA	266.4 86.0	59.52 BLFT19990511UF	35 24 10 119 23 36	0.080 27	119 17.4	5.3 Paulino Bernal Evangelism	29.48	1.43
208B Shafter	KGLV.A	APP DVX CA	286.7 106.3	69.17 BMPED20060425AAX	35 36 52 119 28 15	50.000 97	188 69.2	44.2 Educational Media Foundati	-7.97	11.20
208B Shafter	KGLV	CP DVN CA	284.0 103.5	71.45 BNPED20000518ACI	35 35 25 119 30 17	8.820 141	227 54.5	36.2 Educational Media Foundati	8.25	19.57
209D Gorman	K209CN	LIC CN CA	179.2 359.2	76.93 BLFT19990201TC	34 44 41 118 43 37	0.010 269	1391 31.8	9.6 Santa Monica Community Col	35.89	27.82
207D Lake Isabella	K207DJ	LIC DV CA	28.7 208.8	33.93 BLFT20021115AAG	35 42 21 118 33 31	0.003 523	2190 0.1	8.7 Calvary Chapel Of Twin Fal	29.76	25.17
209B Santa Maria	KHFR	LIC DVX CA	246.4 65.5	144.16 BLED20050615ACJ	34 54 37 120 11 08	2.450 408	1005 111.1	43.7 Family Stations, Inc.	18.35	43.81
207D Lake Isabella	K207DJ	CP DV CA	46.0 226.2	40.16 BPFT20030417AAZ	35 41 18 118 25 10	0.004 277	1102 0.1	7.6 Calvary Chapel Of Twin Fal	37.86	32.55
209B1 Visalia	KARM	LIC CN CA	352.3 172.1	134.18 BLED19900618KD	36 38 10 118 56 32	1.000 725	1574 120.5	49.0 Harvest Broadcasting Compa	12.62	78.64
208D Porterville	K208EI	LIC C CA	338.3 158.1	78.43 BLFT20040604ACQ	36 05 38 119 03 47	0.010 7	157 4.4	3.2 Paulino Bernal Evangelism	73.24	73.76
210B Kettleman City	KWDS.C	CP DVX CA	299.5 118.8	127.21 BMPED20050202AFK	35 59 42 119 58 06	50.000 144	205 77.2	51.4 Horizon Christian Fellowsh	46.18	68.81
207D Gorman	AP207	APP C CA	179.2 359.2	76.93 BNPFT20000421AAE	34 44 41 118 43 37	0.010 265	1387 0.2	9.5 Southern California Public	67.49	67.29
06ZT Tehachapi	NEW	AP N CA	141.9 322.1	43.10 BNPTVL20000831BO	35 07 57 118 26 49	3.000 228	1220 0.3	27.8 Pappas Telecasting Incorpo	135.0R	-91.9M•
06ZT Bakersfield	NEW	AP D N CA	199.1 19.0	13.86 BNPTVL20000831BG	35 19 12 118 47 22	3.000 169	312 6.4	11.0 Marcia T. Turner Tr/as Tur	135.0R	-121.1M
06+T Johannesburg	NEW	AP N CA	94.5 275.1	100.23 BNPTVL20000829AX	35 21 46 117 38 24	0.500 527	1293 1.0	31.2 Jeff Chang	135.0R	-34.8M•
06ZT Inyokern, Etc.	K61AJ	CP D N CA	89.9 270.4	83.89 BPPTV20041129ABR	35 26 10 117 48 56	3.000 895	1528 1.3	6.5 Roy William Mayhugh	135.0R	-51.1M•
06-T Caliente	NEW	AP N CA	140.3 320.4	44.23 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.

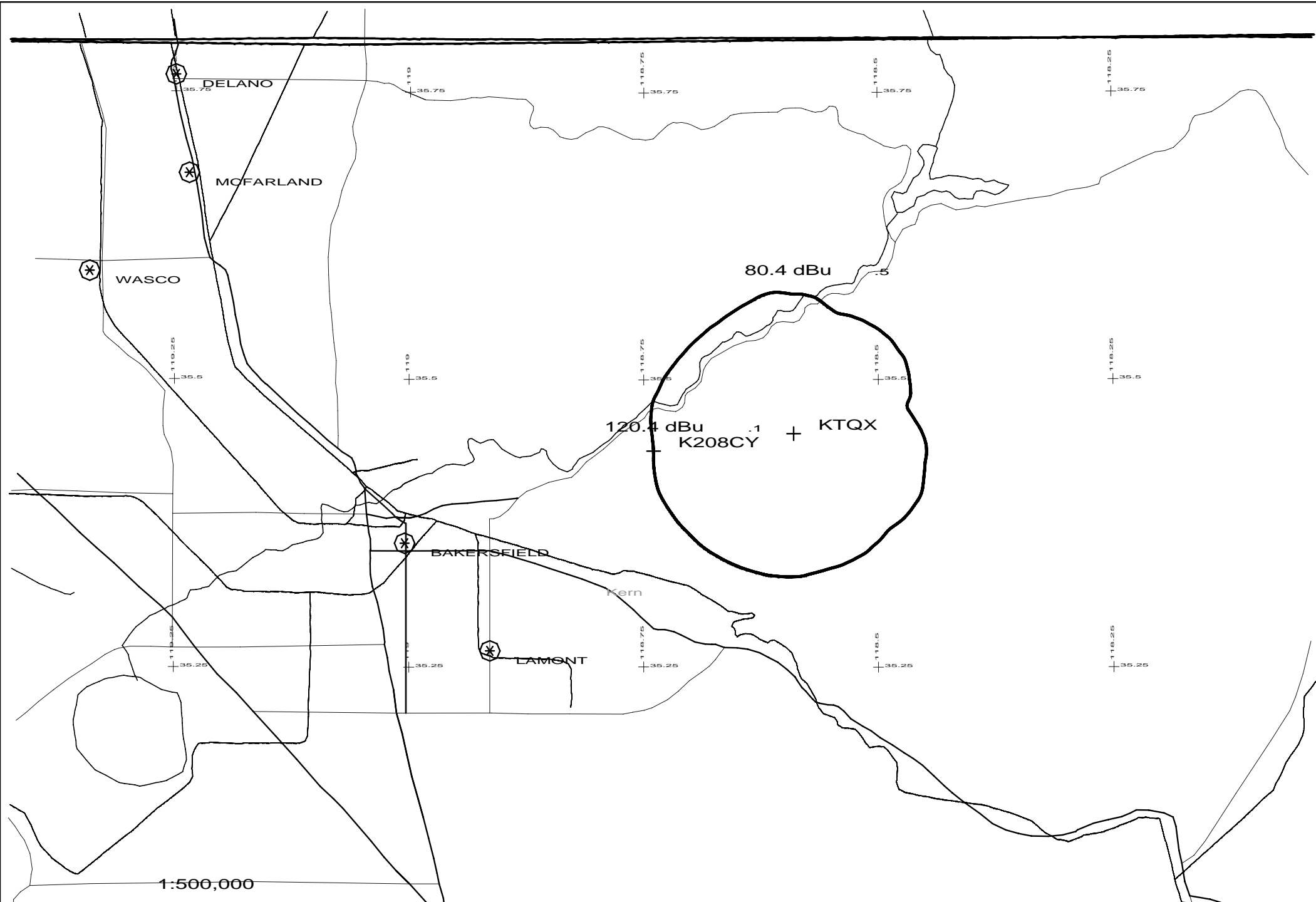
***affixed to 'IN' or 'Out' values = site inside protected contour.

Compliance with C.F.R. 74.1204

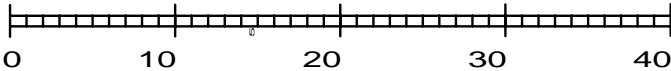
The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KTQX, channel 211B, Bakersfield, CA. The predicted F(50-50) field strength of KTQX at the proposed translator site is 80.4 dBu (see Exhibit 12A-1). Therefore, the respective predicted interfering 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 80 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

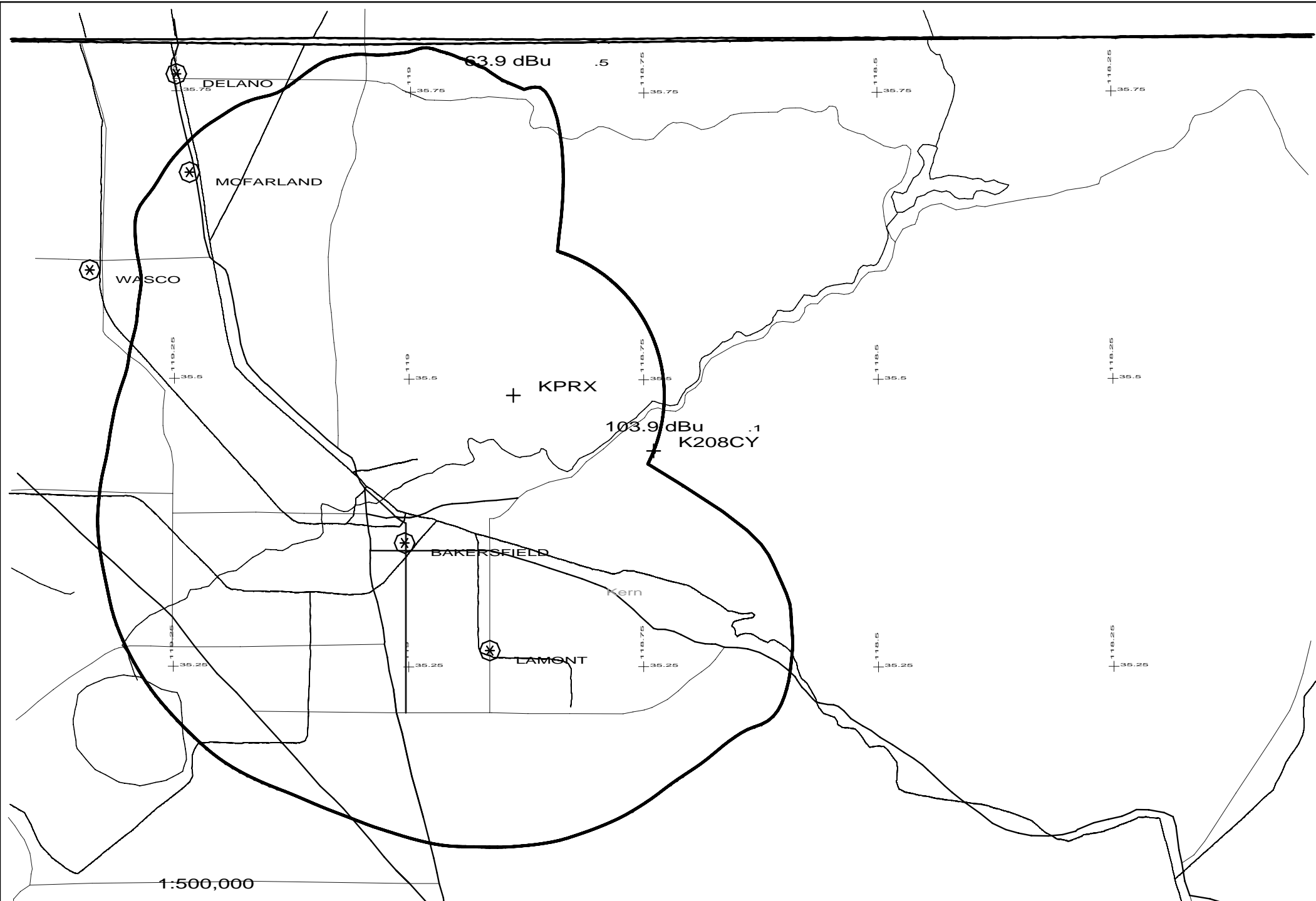
Compliance with C.F.R. 74.1204

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:

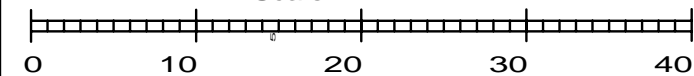
- 1.) Computer software which uses the centroid method of determining population centers, based on the 2000 census data, has determined that there are no persons within the area of overlap.
- 2.) Examination of the USGS topographic map (see Exhibit 12D) reveals no regularly occupied structures within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

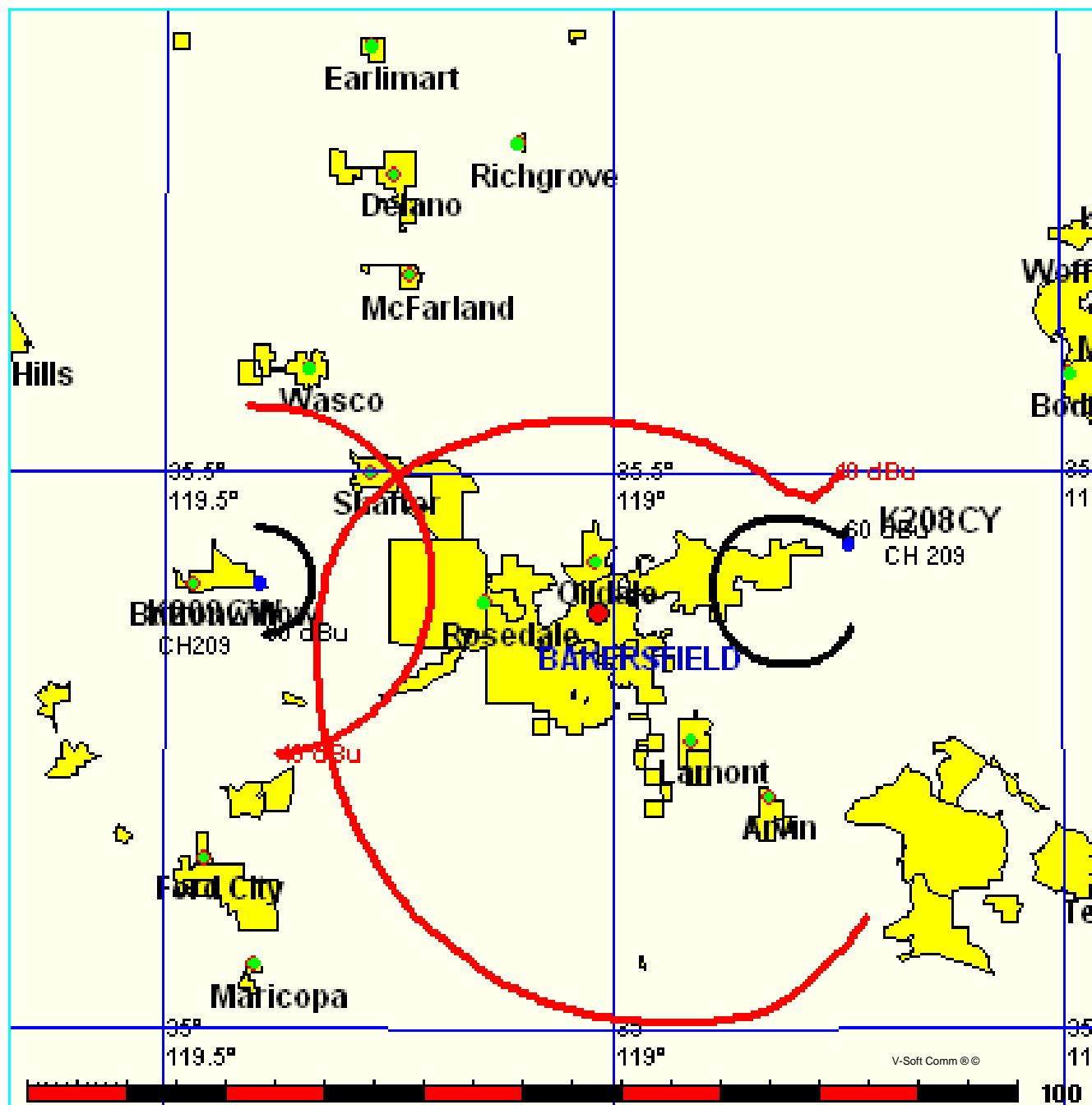
K208CY vs. kprx
EMF - 05/06

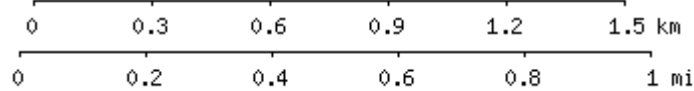
FMCommander Allocation Study
05-08-2006

K208CY CH 209 D
0.009 kW 1154 M COR DA
Prot. = 60 dBu
Intef. = 40 dBu

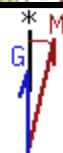
K209CW CH 209 D BLFT19990511UF
0.08 kW, 119 M COR
Prot. = 60 dBu
Intef. = 40 dBu

Scale = 1:1,000,000





MOUNT ADELAIDE quadrangle
Projection is UTM Zone 11 NAD83 Datum



M=13.131
G=-1.009