

Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 13

Carmichael, CA

Channel Study

REFERENCE		CH# 236D - 95.1 MHz, Pwr= 0.25 kW, HAAT= 77.7 M, COR= 113 M								DISPLAY DATES	
38 40 21.0 N.		Average Protected F(50-50)= 11.4 km								DATA	08-17-16
121 19 51.0 W.		Omni-directional								SEARCH	08-17-16
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
234B1 Fair Oaks	KKDO	LIC	CN CA	322.4 142.4	0.03 BLH19971217KG	38 40 22.0 121 19 52.0	25.000 99	4.0 134	44.1 Entercom License, Llc	-16.0*	-45.6*
236D Natomas	K236BQ!	LIC	DV CA	227.7 47.6	17.51 BLFT20160713ABD	38 33 59.0 121 28 47.0	0.250 82	37.7 91	11.1 Educational Media Foundati	-32.9	-37.4
236B Oakdale	KHOP	LIC	CN CA	143.8 324.3	120.78 BLH19850326KZ	37 47 34.0 120 31 08.0	29.500 193	126.8 433	60.7 Radio License Holding Cbc,	-17.3*	4.9
236B Chico	KMXI	LIC	CN CA	346.8 166.5	145.35 BLH19840306DD	39 56 46.0 121 43 17.0	8.700 357	145.3 1056	77.5 Deer Creek Broadcasting, L	-11.7	11.1
237B1 Vacaville	KUIC	LIC	NCX CA	245.5 65.0	73.73 BMLH20150430ACI	38 23 42.0 122 05 57.0	0.490 617	64.4 877	49.7 Alpha Media Licensee Llc	-3.4	1.4
238D Rio Linda	K238AY	LIC	C CA	287.4 107.3	13.18 BLFT20070529ACH	38 42 28.0 121 28 32.0	0.027 76	0.4 91	5.9 Calvary Chapel Of Twin Fal	0.2	6.1
239D Elk Grove	K228EL	CP	DC CA	183.6 3.6	24.37 BPFT20160728AEH	38 27 12.2 121 20 55.0	0.250	0.0 94	1.5 American Educational Broad	12.2	21.7
236L1 Georgetown	KFOK-LP	LIC		59.0 239.3	52.25 BLL20120327AAA	38 54 46.7 120 48 49.6	0.001 351			20.4	18.3
235B San Francisco	KYLD	LIC	CX CA	221.8 41.1	145.89 BMLH20080403ACF	37 41 22.0 122 26 10.0	30.000 369	99.4 425	82.1 Amfm Broadcasting Licenses	33.9	37.1
238D Yuba City	K238AV	LIC	DV CA	324.7 144.4	72.77 BLFT20130801AGL	39 12 20.0 121 49 10.0	0.126 618	0.3 664	17.7 Results Radio Of Chico Lic	60.4	53.9

Terrain database is FCC 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= East Zone 2A, Co to 3rd adjacent.
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.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KKDO, channel 234B1, Fair Oaks, CA. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for K236BQ.P:	250 watts
The proposed COR for K236BQ.P:	82 meters
KKDO F(50/50) contour at proposed site:	165.3 dBu
The F(50/10) contour of proposed K236BQ.P	205.3 dBu
The predicted distance to K236BQ.P interference contour:	0 meters

The signal is predicted to not reach the ground. Therefore, EMF respectfully requests a waiver of C.F.R. 74.1204 based on no population within the area of predicted interference.

Exhibit 13-B

FMCommander Single Allocation Study - 08-17-2016 - FCC NGDC 30 Sec
K236BQ.P's Overlaps (In= -17.29 km, Out= 4.93 km)

K236BQ.P CH 236 D
Lat= 38 40 21.0, Lng= 121 19 51.0
0.25 kW 77.7 m HAAT, 113 m COR
Prot.= 60 dBu, Intef.= 34 dBu

KHOP CH 236 B BLH19850326KZ
Lat= 37 47 34.0, Lng= 120 31 08.0
29.5 kW 193 m HAAT, 433 m COR
Prot.= 54 dBu, Intef.= 40 dBu

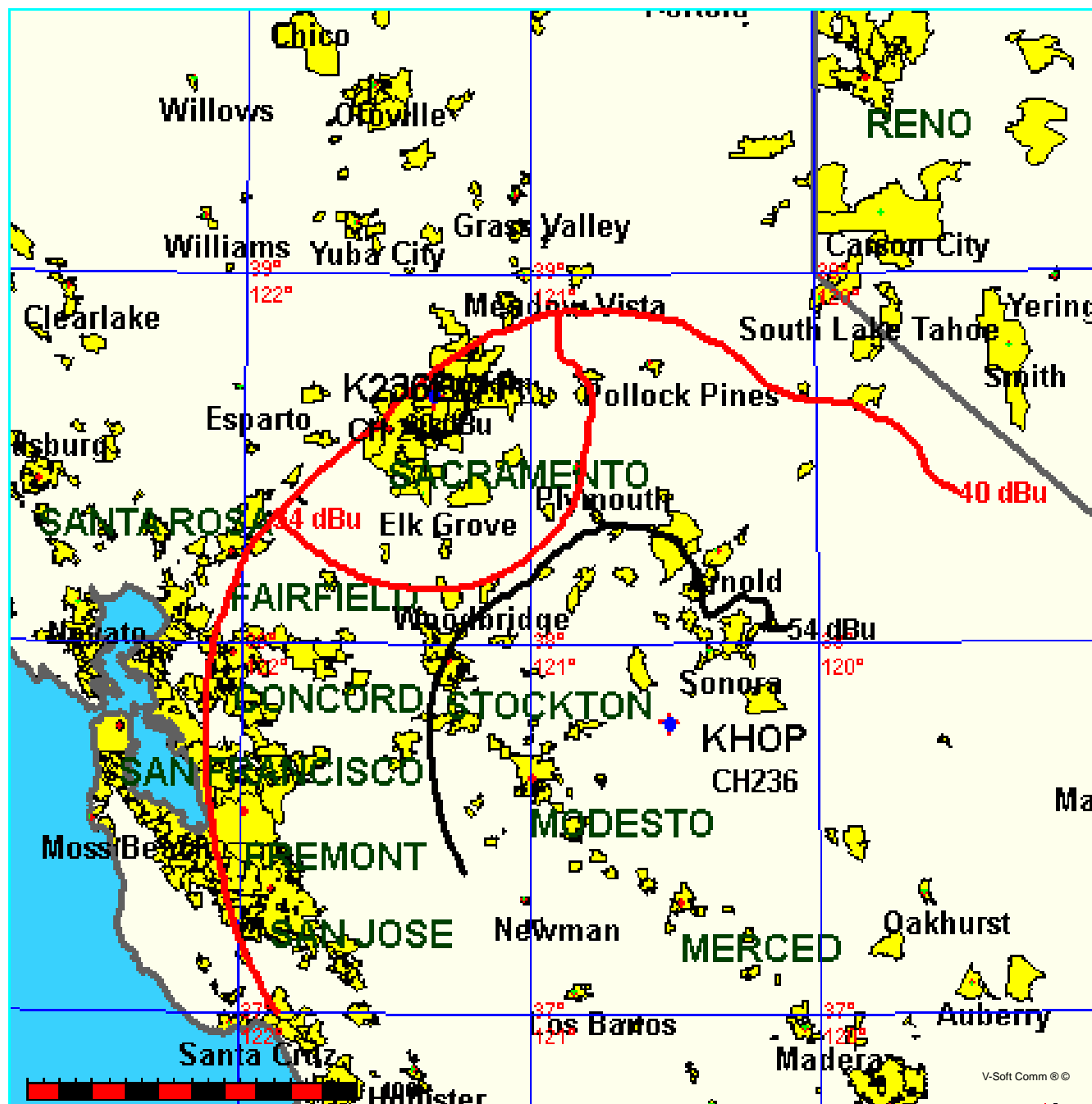


Exhibit 13-C

FMCommander Single Allocation Study - 08-17-2016 - FCC NGDC 30 Sec
K236BQ.P's Overlaps (In= -11.72 km, Out= 11.05 km)

K236BQ.P CH 236 D
Lat= 38 40 21.0, Lng= 121 19 51.0
0.25 kW 77.7 m HAAT, 113 m COR
Prot.= 60 dBu, Intef.= 34 dBu

KMXI CH 236 B BLH19840306DD
Lat= 39 56 46.0, Lng= 121 43 17.0
8.7 kW 357 m HAAT, 1056 m COR
Prot.= 54 dBu, Intef.= 40 dBu

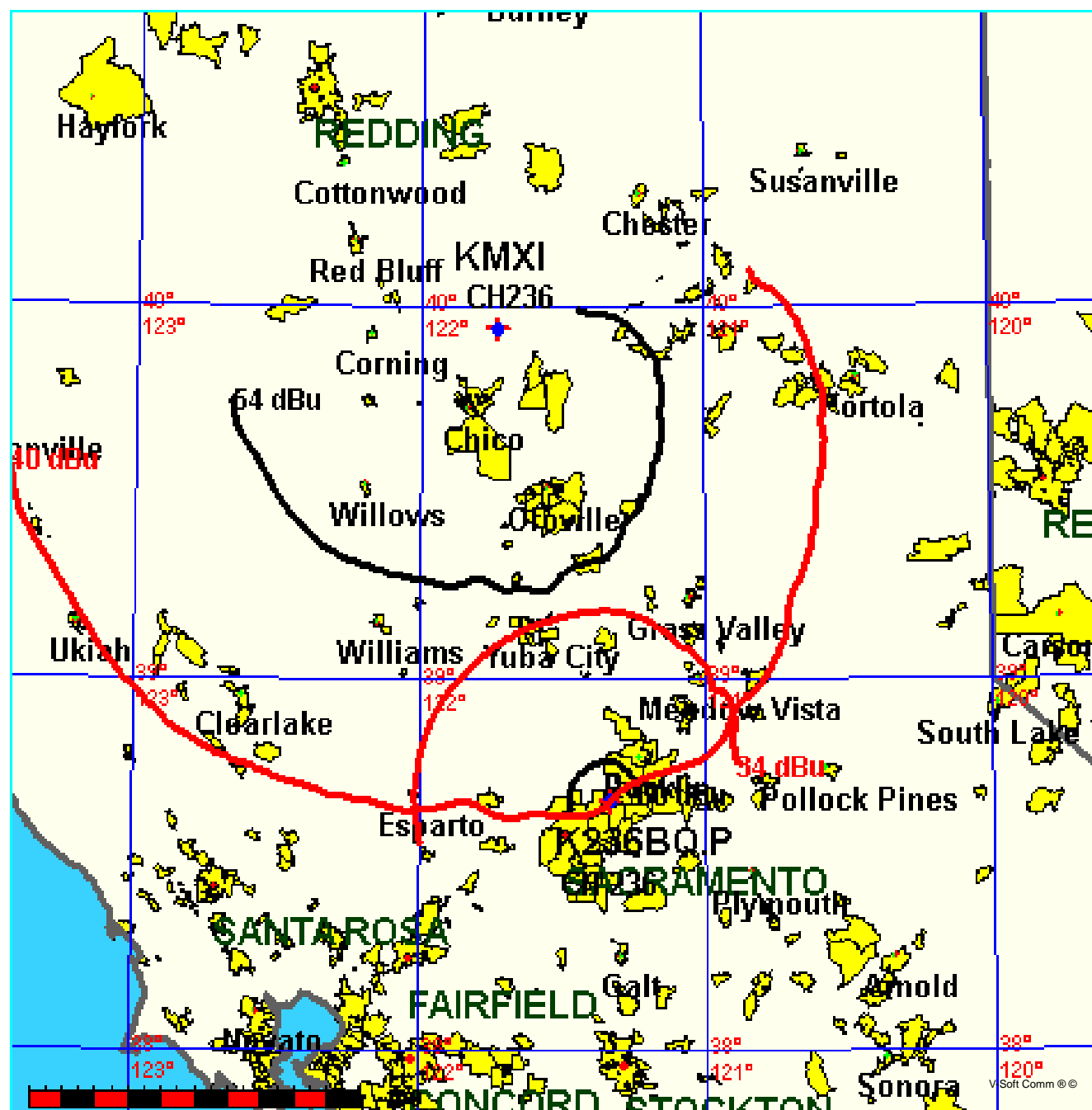


Exhibit 13-D

FMCommander Single Allocation Study - 08-17-2016 - FCC NGDC 30 Sec
K236BQ.P's Overlaps (In= -3.37 km, Out= 1.35 km)

K236BQ.P CH 236 D
Lat= 38 40 21.0, Lng= 121 19 51.0
0.25 kW 77.7 m HAAT, 113 m COR
Prot.= 60 dBu, Intef.= 51 dBu

KUIC CH 237 B1 73.215 N BMLH20150430ACI
Lat= 38 23 42.0, Lng= 122 05 57.0
0.49 kW 617 m HAAT, 877 m COR
Prot.= 57 dBu, Intef.= 54 dBu

