

Channel Study

REFERENCE CH# 242D - 96.3 MHz, Pwr= 0.25 kW DA, HAAT= 684.2 M, COR= 979 M DISPLAY DATES
 36 45 22.0 N. Average Protected F(50-50)= 34.7 km DATA 07-08-11
 121 30 06.0 W. Standard Directional SEARCH 07-09-11

CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
242D Salinas, Etc.	K242AT	LIC	C CA	0.0 0.0	0.0 BLFT20030616AAA	36 45 22.0 121 30 06.0	0.010 689	57.1 979	15.6 Richard S. Bushell	-60.3*	-36.8*
245B Monterey	KWAV	LIC	CX CA	203.3 23.3	26.8 BMLH20041028AIK	36 32 05.0 121 37 14.0	18.000 747	8.3 1071	101.4 Buckley Communications, In	-14.1*	-76.1*
242B Mariposa	KUBB	LIC	CX CA	56.0 236.9	156.7 BLH20020204AAQ	37 32 01.0 120 01 46.0	1.900 639	137.2 1329	73.9 Buckley Communications, In	16.4	53.3
241A Morgan Hill	KSQQ	LIC	CN CA	330.7 150.6	54.5 BLH19940801KD	37 11 01.0 121 48 09.0	4.700 49	27.5 349	18.7 Coyote Communications, Inc	23.9	29.9
296A Seaside	KSES-FM«	LIC	CN CA	228.5 48.4	34.2 BLH19930507KB	36 33 09.0 121 47 17.0	1.850 179	38.7 410	35.4 Entravision Holdings, Llc	9.5R	24.7M
240A Big Sur	NEW	CP	CX CA	206.9 26.7	61.6 BNPH20091019ABH	36 15 41.0 121 48 45.0	1.000 48	1.6 351	10.2 Mount Wilson Fm Broadcaste	26.1	50.5
240A Big Sur	AU7958720	VAC	CA	207.6 27.4	62.4 RM10342	36 15 28.0 121 49 28.0	6.000 100	1.6 342	15.8 Coyote Communications, Inc	26.7	45.8
240D Soledad	K240AK	LIC	DVN CA	170.9 351.0	41.9 BLFT19891109TA	36 23 00.0 121 25 40.0	0.027 485	0.1 943	11.0 Calvary Chapel Of Twin Fal	27.9	30.7
243B San Francisco	KOIT	LIC	CX CA	323.2 142.6	139.3 BMLH20070809ABA	37 45 19.0 122 27 06.0	24.000 480	104.8 511	85.8 Entercom San Francisco Lic	30.7	41.4
295D Soledad	645887«	APP	C CA	148.5 328.7	49.0 BNPFT20030317EHI	36 22 48.0 121 12 57.0	0.250 174	7.7 439	7.7 King City Communications C	5.5R	43.5M
240D Soquel, Etc.	K240CD	LIC	DVN CA	318.5 138.3	51.8 BLFT19890828TA	37 06 15.0 121 53 18.0	0.028 215	0.1 585	4.3 Calvary Chapel Of Twin Fal	45.2	47.3
240A Dos Palos	KSKD	RSV-A	CA	62.5 242.9	75.5 RM9857	37 04 03.0 120 44 52.0	6.000 100	2.7 137	27.6 Kskd, Inc.	69.7	47.9
295A Los Banos	KQLB«	LIC	CN CA	71.9 252.2	61.5 BLH19921207KI	36 55 35.0 120 50 42.0	6.000 100	15.9 257	15.8 Vlb Broadcasting, Inc.	9.5R	52.0M
295D King City	645532«	APP	C CA	150.3 330.5	70.2 BNPFT20030317GNX	36 12 22.6 121 06 49.2	0.250 -96	7.1 147	7.1 Radio Assist Ministry, Inc	5.5R	64.7M
239B San Francisco	KBWF	LIC	CN CA	321.7 141.1	132.7 BMLH19930914KB	37 41 23.0 122 26 12.0	6.900 393	4.9 450	68.7 Entercom San Francisco Lic	123.5	64.0

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= 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 protected contour.
 « = Station meets FCC minimum distance spacing for its class.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station KWAV (channel 245B) Monterey, CA. According to 74.1204(a)(3), in order to protect third adjacent facilities, the difference in dB between the two facilities must not exceed 40dB.

EMF has investigated the proposed K242AT facility using V-Soft Communication's X-Field program. This program calculates the incoming signal of the station to be protected, and then calculates the interfering contour of the proposed facility based on the proposed ERP, antenna height above ground, and the actual characteristics of the antenna being used (e.g. vertical plane, directionality, number of bays). In this case K242AT's proposed facility has an ERP of 250 watts, height AG of 44m, and is using an 1 bay CL-FMRX(V) antenna.

As can be seen in the graph below, at no point does the interfering contour of the proposed facility exceed the required 40dB difference (green line on graph). Therefore, the proposed facility does not cause interference at any point.

