Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Channel Study

REFERENCE CH# 264D - 100.7 MHz, Pwr= 0.25 kW DA, HAAT= 204.8 M, COR= 418 M DISPLAY DATES
34 02 18.0 N. Average Protected F(50-50)= 18.7 km DATA 07-22-13
117 53 21.0 W. Standard Directional SEARCH 07-22-13

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)	
266B KRTH	LIC	CX	322.2	26.60	34 13 38.0	51.000	14.1	122.6	0.4	-96.7*
Los Angeles	CA		142.1	BMLH20071015AJG	118 04 00.0	955	1854	Cbs Radio East Inc.		
262B KSWD	LIC	CX	322.1	26.50	34 13 35.0	5.400	4.7	94.7	9.7	-68.8*
Los Angeles	CA		142.0	BLH20090409AHH	118 03 58.0	889	1782	Bonneville International C		
264D K264AF	APP	DV	296.4	31.51	34 09 50.0	0.235	78.1	24.5	-55.9*	-33.6
Guasti	CA		116.2	BPFT20130328ATG	118 11 46.0		582	Educational Media Foundati		
264D K264AF	LIC	DCN	45.6	23.79	34 11 17.0	0.008	65.3	12.0	-52.6*	-40.5
Guasti	CA		225.7	BLFT19990331TB	117 42 16.0	654	1633	Educational Media Foundati		
264D K264AF	APP	DV	62.5	8.02	34 04 18.0	0.100	36.6	11.0	-40.4*	-43.6*
Guasti	CA		242.5	BPFT20130328ATG	117 48 43.0		396	Educational Media Foundati		
264B KHAY	LIC	CN	285.0	137.13	34 20 55.0	39.000	165.5	85.9	-38.7*	0.3
Ventura	CA		104.2	BLH19960322KA	119 19 57.0	369	653	Cumulus Licensing Llc		
264A KATJ-FM	LIC	CN	40.8	84.20	34 36 38.0	0.260	85.4	28.8	-14.6*	10.4
George	CA		221.1	BLH19921106KA	117 17 18.0	472	1384	Edb Vv License Llc		
264B KFMB-FM	LIC	C	155.8	146.05	32 50 17.0	30.000	140.3	71.6	-10.5	5.6
San Diego	CA		336.2	BMLH20010717AAF	117 14 57.0	189	269	Midwest Television, Inc.		
265A KAEH	CP	CX	96.6	84.03	33 56 51.0	5.300	57.2	36.5	11.6	19.6
Beaumont	CA		277.2	BPH20110929AJI	116 59 03.0	38	890	Casa Media Partners, Llc		
265A KAEH	LIC	CN	99.7	83.63	33 54 29.0	1.500	54.4	36.2	12.5	22.6
Beaumont	CA		280.2	BLH20000330ACC	116 59 45.0	146	892	Casa Media Partners, Llc		
263B1 KPSI-FM	LIC	CN	93.9	136.79	33 56 44.0	25.000	91.6	69.5	28.3	36.7
Palm Springs	CA		274.7	BLH19910314KA	116 24 34.0	37	708	R & R Radio Corporation		
264D 1550033	APP	DV	338.2	59.89	34 32 18.0	0.010	1.8	0.7	47.0	30.8
Palmdale	CA		158.1	BNPFT20030311ATT	118 07 55.0		1035	Radio Bilingue, Inc.		
210B KCRW	LIC	CN	281.1	47.13	34 07 08.0	6.900	0.0	0.0	14.5R	32.7M
Santa Monica	CA		100.8	BLED19810325AF	118 23 30.0	338	537	Santa Monica Community Col		
267D KATY-1	APP	DV	120.6	59.00	33 46 00.1	0.500	0.0	3.3	43.5	54.5
Menifee	CA		300.9	BNPFTB20110429ABS	117 20 23.4		789	All Pro Broadcasting, Inc.		
261D K261AB	CP	DC	306.2	58.88	34 21 00.0	0.007	0.1	4.6	46.5	53.8
Newhall, Etc.	CA		125.9	BPFT20121010ACD	118 24 25.0		1242	Bonneville International C		
261D K261AB	LIC	DVN	306.2	58.88	34 21 00.0	0.007	0.1	4.6	46.5	53.8
Newhall, Etc.	CA		125.9	BMLFT19971222TG	118 24 25.0	597	1241	Bonneville International C		

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference Zone=East Zone 2A, Co to 3rd adjacent.
All separation margins (if shown) include rounding
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.

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Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel stations KRTH channel 266B and KSWD channel 262B, each facility specifies Los Angeles, California as its community of license. 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 K264AF:	250 watts
The proposed COR for K264AF:	55 meters
KRTH F(50/50) contour at proposed site:	93.7 dBu
The F(50/10) contour of proposed K264AF	133.7 dBu
The predicted distance to K264AF interference contour:	22.9 meters
KSWD F(50/50) contour at proposed site:	83.7 dBu
The F(50/10) contour of proposed K264AF	123.7 dBu
The predicted distance to K264AF interference contour:	72.4 meters

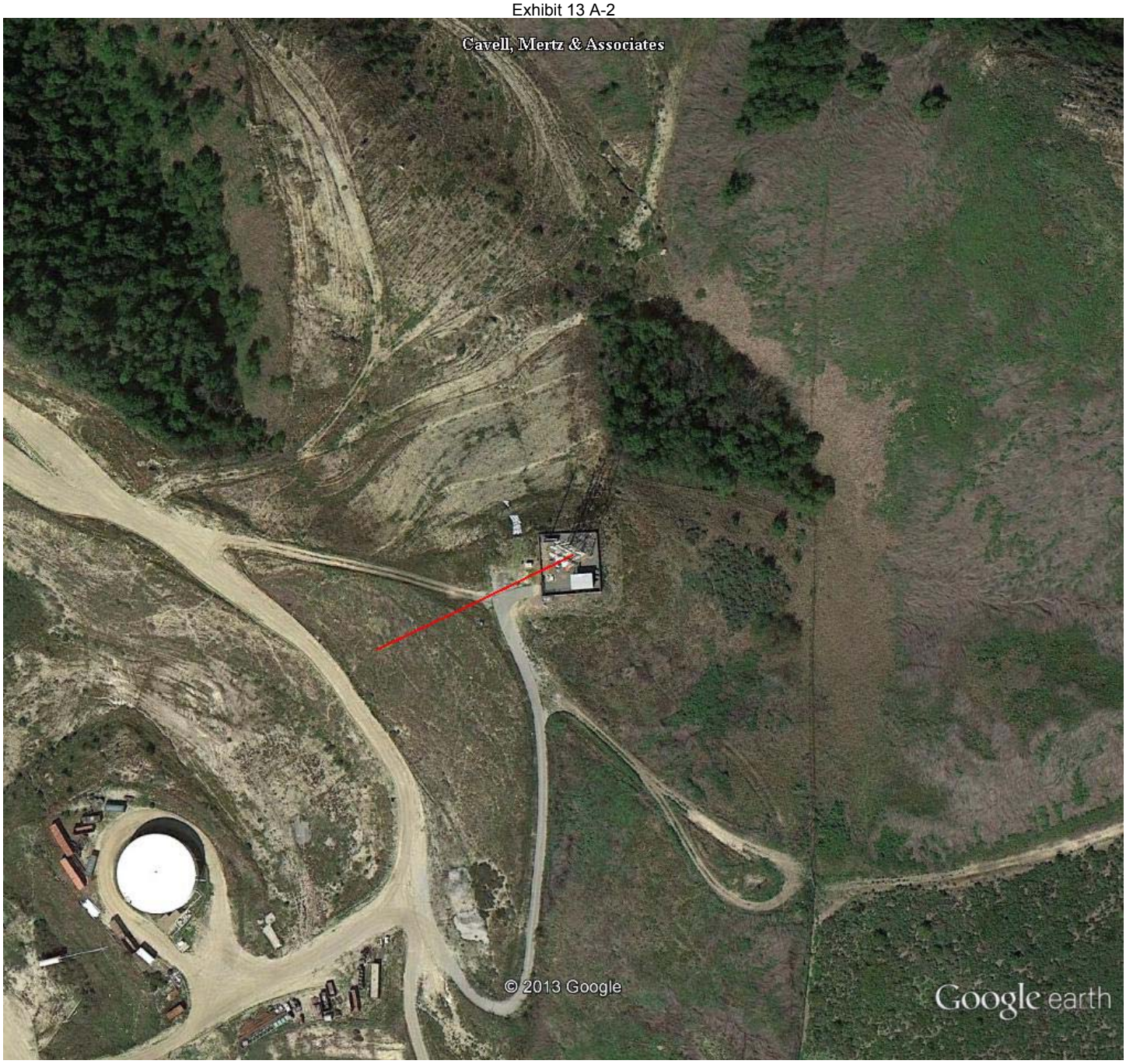
By taking into account the antenna vertical elevation pattern for a two bay Scala CA5-FM/CP/RM/50N, it has been determined that the furthest predicted interfering contour will not actually reach the ground (see Exhibit 13 A-1). The maximum distance to the furthest interference contour is 72.4 meters. Please see Exhibit 13 A-2 for an aerial photo of the area that shows there are no regularly occupied buildings tall enough to enter the furthest maximum distance to interference contour of 72.4m.

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

EXHIBIT 13 - A1
74.1204(d) Showing
K274AF
GUASTI,CA

ERP (kw): 0.25
Height of Antenna above Ground (m): 55
Translator's IX Contour: 123.7
Antenna Type: Scala CA5-CP/2 .87 wave spacing

Depression Angle from Horizon	Antenna Relative Field	ERP (kw) from the Antenna RF	Dist. To IX Contour (m)	Height IX Contour Above Ground (m)
0	1.000	0.2500	72.4386	55.000
5	0.955	0.2280	69.1789	48.971
10	0.847	0.1794	61.3555	44.346
15	0.695	0.1208	50.3448	41.970
20	0.514	0.0660	37.2334	42.265
25	0.321	0.0258	23.2528	45.173
30	0.146	0.0053	10.5760	49.712
35	0.010	0.0000	0.7244	54.585
40	0.098	0.0024	7.0990	50.437
45	0.150	0.0056	10.8658	47.317
50	0.164	0.0067	11.8799	45.899
55	0.153	0.0059	11.0831	45.921
60	0.136	0.0046	9.8516	46.468
65	0.112	0.0031	8.1131	47.647
70	0.113	0.0032	8.1856	47.308
75	0.118	0.0035	8.5478	46.744
80	0.128	0.0041	9.2721	45.869
85	0.137	0.0047	9.9241	45.114
90	0.144	0.0052	10.4312	44.569



Google earth feet 600 meters 100

NAD27 COORDINATES

34 02 18 N

117 53 21 W

RED LINE MEASURE IS 72.4M FROM THE BASE OF THE TOWER.