

### Channel Study

REFERENCE		CH# 229D - 93.7 MHz, Pwr= 0.043 kW, HAAT= 444.3 M, COR= 1011 M								DISPLAY DATES	
40 39 14.0 N.		Average Protected F(50-50)= 17.6 km								DATA 07-20-12	
122 31 12.0 W.		Omni-directional								SEARCH 07-20-12	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
229C Medford	KTMT-FM	LIC	C OR	354.1 174.0	159.54 BMLH20091214AFD	42 04 52.0 122 43 09.0	31.000 980	194.2 2297	90.9 Mapleton License Of Medfor	-49.1*	36.7
229D Eureka	K229AF	APP	V CA	66.2 246.6	47.67 BPFT20030207ABD	40 49 32.0 122 00 05.0	0.002	13.8 584	3.9 Calvary Chapel Of Twin Fal	11.4	-29.2
229D Redding	K232DQ	CP	C CA	0.0 0.0	0.00 BPFT20120307ABR	40 39 14.0 122 31 12.0	0.045	17.7 1016	5.4 Educational Media Foundati	-22.7*	-21.5*
232D Redding	K232DQ	LIC	C CA	0.0 0.0	0.00 BMLFT20071114ABL	40 39 14.0 122 31 12.0	0.010 444	0.2 1011	3.5 Educational Media Foundati	-5.2*	-3.9*
227D Redding	K227AE	LIC	DC CA	241.9 61.9	0.51 BLFT20091228ADK	40 39 06.1 122 31 31.5	0.250 441	0.0 1016	1.1 Results Radio Of Redding L	-4.0*	-1.1*
232C3 Manton	KRBN	CP	CX CA	109.2 289.6	55.52 BPH20110627ABP	40 29 18.0 121 53 59.0	2.100 341	3.0 1084	51.3 S & S Venegas, Llc	28.8	3.9
230B1 Chico	KFMF	LIC	CN CA	139.0 319.5	103.81 BLH19880811LB	39 56 46.0 121 43 17.0	2.000 344	62.4 1044	47.1 Mapleton License Of Chico,	17.7	12.2
228B Willits	KMKX	LIC	C CA	201.1 20.8	135.41 BLH19991118AAU	39 30 59.0 123 05 21.0	0.890 876	77.4 1839	66.0 Radio Millennium L L C	37.0	25.6
232A Burney	KRBN	LIC	HX CA	68.5 249.0	67.68 BLH20100624AMK	40 52 28.0 121 46 15.0	0.220 438	1.0 1624	32.7 S & S Venegas, Llc	43.9	34.4

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=West Zone,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.

**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station K227AE, channel 227D, Redding, 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.

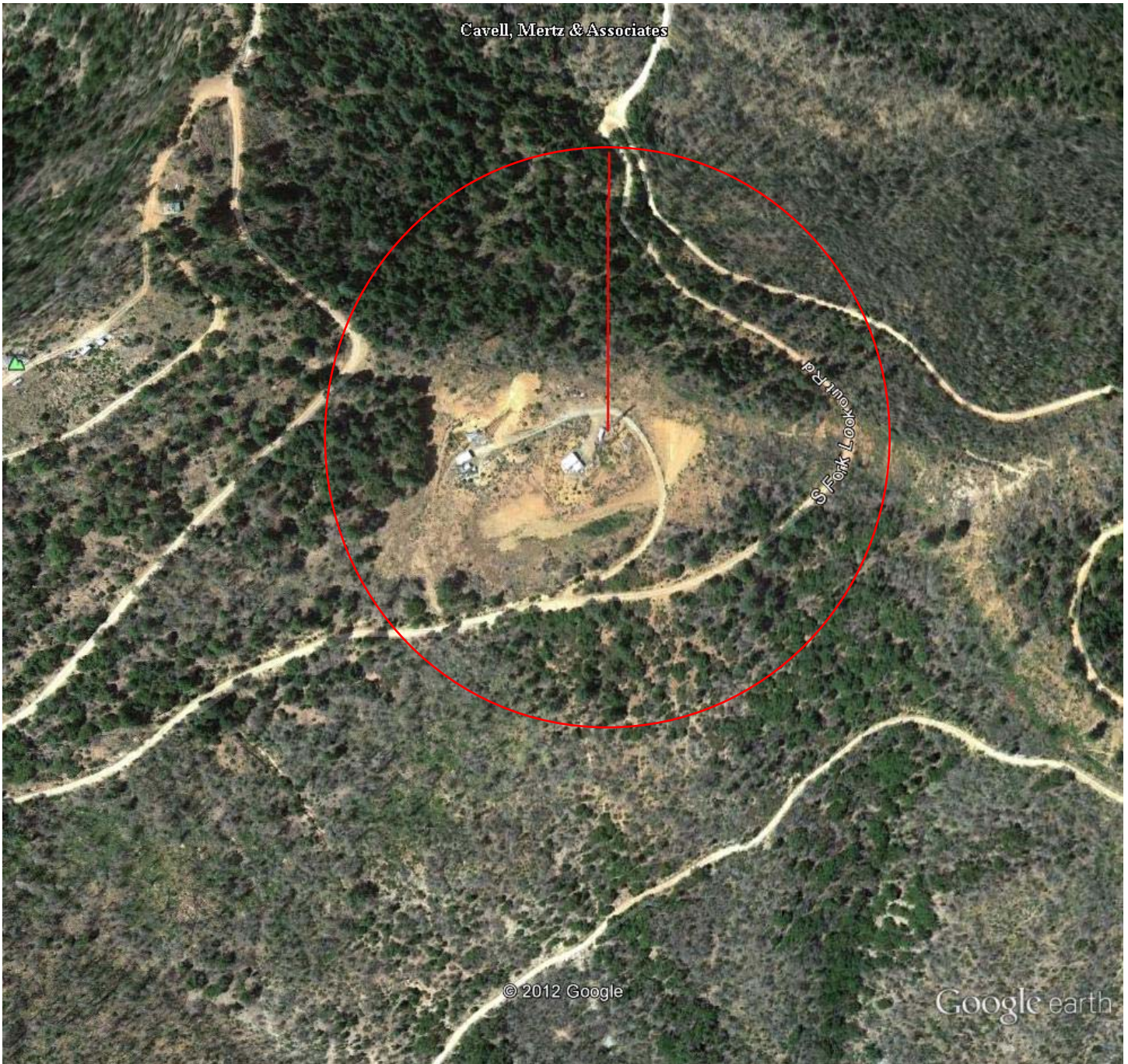
The proposed ERP for K232DQ:	0.043 watts
The proposed COR for K232DQ:	49 meters
K227AE F(50/50) contour at proposed site:	66.6 dBu
The F(50/10) contour of proposed K232DQ	106.6 dBu
The predicted distance to K232DQ interference contour:	214.8 meters

Shown in Exhibit 13 – A1 is an aerial photo of the tower site. Marked on the photo is a 214.8m distance from the transmit site. As can be seen, the area is rural with several unoccupied transmitter facilities nearby. Also, there are no regularly occupied structures or areas within the predicted 214.8m distance.

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

Cavell, Mertz & Associates



Google earth

feet  
meters

1000  
300



Coordinates (NAD27)

40 39 14 N

122 31 12 W

Line measure is 214m