

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	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	159.54	42 04 52.0	31.000	194.2	90.9	-49.1*	36.7
229D K229AF											
Eureka		APP	V CA	66.2	47.67	40 49 32.0	0.002	13.8	3.9	11.4	-29.2
229D K232DQ											
Redding		CP	C CA	0.0	0.00	40 39 14.0	0.045	17.7	5.4	-22.7*	-21.5*
232D K232DQ											
Redding		LIC	C CA	0.0	0.00	40 39 14.0	0.010	0.2	3.5	-5.2*	-3.9*
227D K227AE											
Redding		LIC	DC CA	241.9	0.51	40 39 06.1	0.250	0.0	1.1	-4.0*	-1.1*
232C3 KRBN											
Manton		CP	CX CA	109.2	55.52	40 29 18.0	2.100	3.0	51.3	28.8	3.9
230B1 KFMM											
Chico		LIC	CN CA	139.0	103.81	39 56 46.0	2.000	62.4	47.1	17.7	12.2
228B KMKX											
Willits		LIC	C CA	201.1	135.41	39 30 59.0	0.890	77.4	66.0	37.0	25.6
232A KRBN											
Burney		LIC	HX CA	68.5	67.68	40 52 28.0	0.220	1.0	32.7	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.

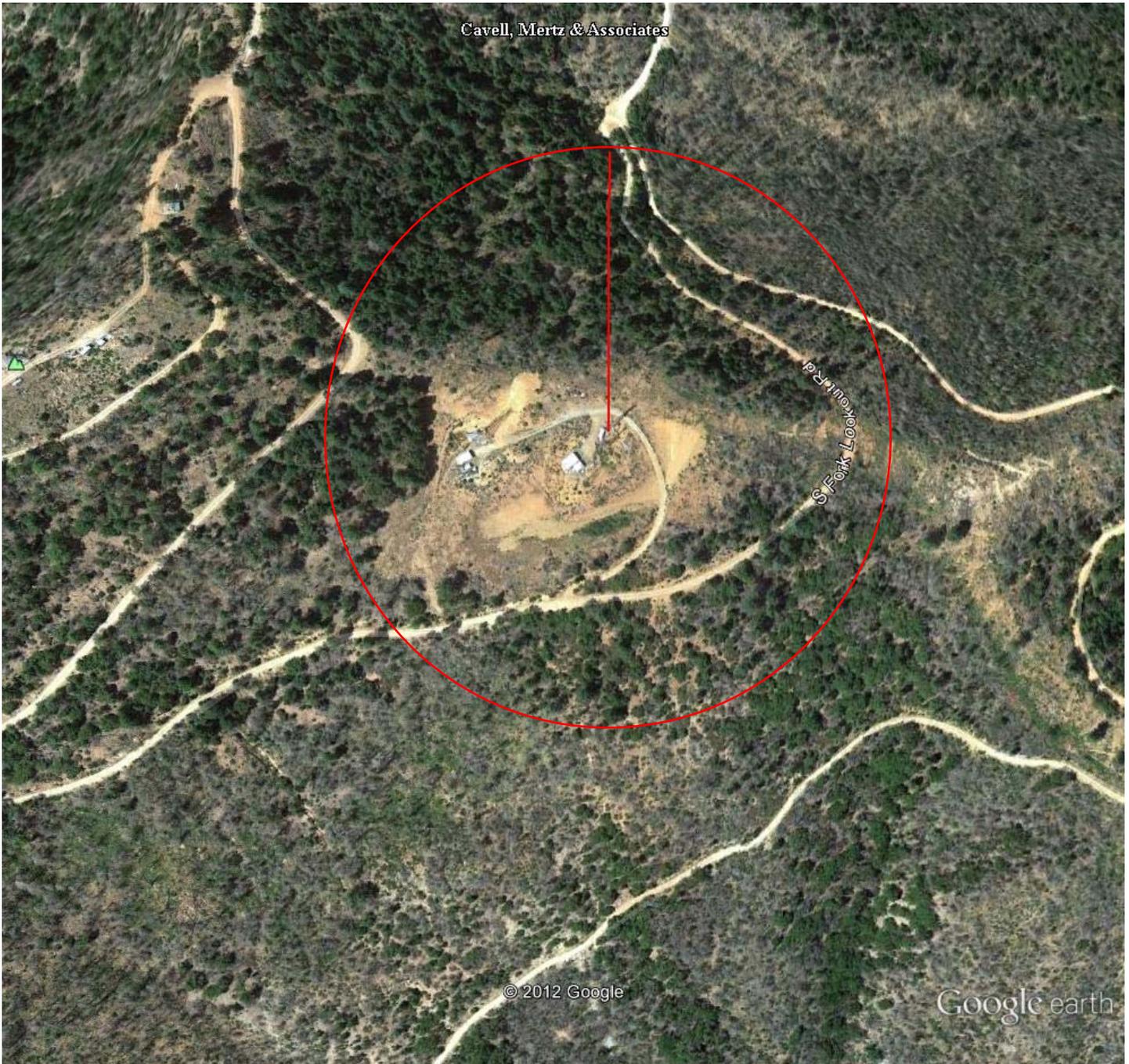
The proposed ERP for K232DQ:	0.043 watts
The proposed COR for K232DQ:	49 meters
K227AE F(50/50) contour at proposed site:	66.6 dBu
The F(50/10) contour of proposed K232DQ	106.6 dBu
The predicted distance to K232DQ interference contour:	214.8 meters

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



Coordinates (NAD27)

40 39 14 N

122 31 12 W

Line measure is 214m