

Part 1 - Channel Study

REFERENCE 21 23 45.0 N. 158 05 58.0 W.		CH# 205D - 88.9 MHz, Pwr= 0.01 kW, HAAT= 573.8 M, Average Protected F(50-50)= 13.4 km Omni-directional				COR= 701 M		DISPLAY DATES DATA 01-04-12 SEARCH 01-04-12			
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*
207C0 Honolulu	KIPO	LIC	DCX HI	102.6 282.8	30.0 BLED20100119ABP	21 20 12.0 157 49 03.0	38.500 514	8.1 622	75.3 Hawaii Public Radio, Inc.	7.2	-45.6*
203D Haleiwa, Etc.	K203EL	LIC	C HI	338.9 158.9	14.0 BLFT20050801AYI	21 30 49.0 158 08 54.0	0.250 987	1.1 1170	38.3 Hawaii Public Radio, Inc.	2.1	-24.5*
203D Honolulu	K256AS	APP	DV HI	0.0 0.0	0.0 BMPFT20111215ADX	21 23 45.0 158 05 58.0	0.001	0.0 704	3.1 Kona Coast Radio, Lic	-10.0*	-3.3*
205C3 Lihue	KHJC	LIC	C HI	296.3 115.8	152.7 BLED20001215AAA	21 59 54.0 159 25 35.0	21.000 111	142.5 390	60.7 Calvary Chapel Of Twin Fal	-4.5	38.8
207D Makaha	KIPO-FM1	LIC	DV HI	338.9 158.9	14.0 BLFTB20100528AEG	21 30 49.0 158 08 54.0	1.000	0.0 1171	5.3 Hawaii Public Radio, Inc.	3.2	7.4
203D Haleiwa, Etc.	K203EL	CP	C HI	101.5 281.7	36.3 BMPFT20091228AAT	21 19 49.0 157 45 24.0	0.250 718	1.1 798	31.2 Hawaii Public Radio, Inc.	20.9	4.3
06+T Hanamaulu	KESU-LP	LI	N HI	293.6 113.1	151.6 BLTVL20030930AOJ	21 56 10.0 159 26 43.0	3.000 414	0.2 414	5.3 Chang Broadcasting Hawaii,	0.0R	151.6M

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.
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.

Part 2 - Compliance with C.F.R. 74.1204

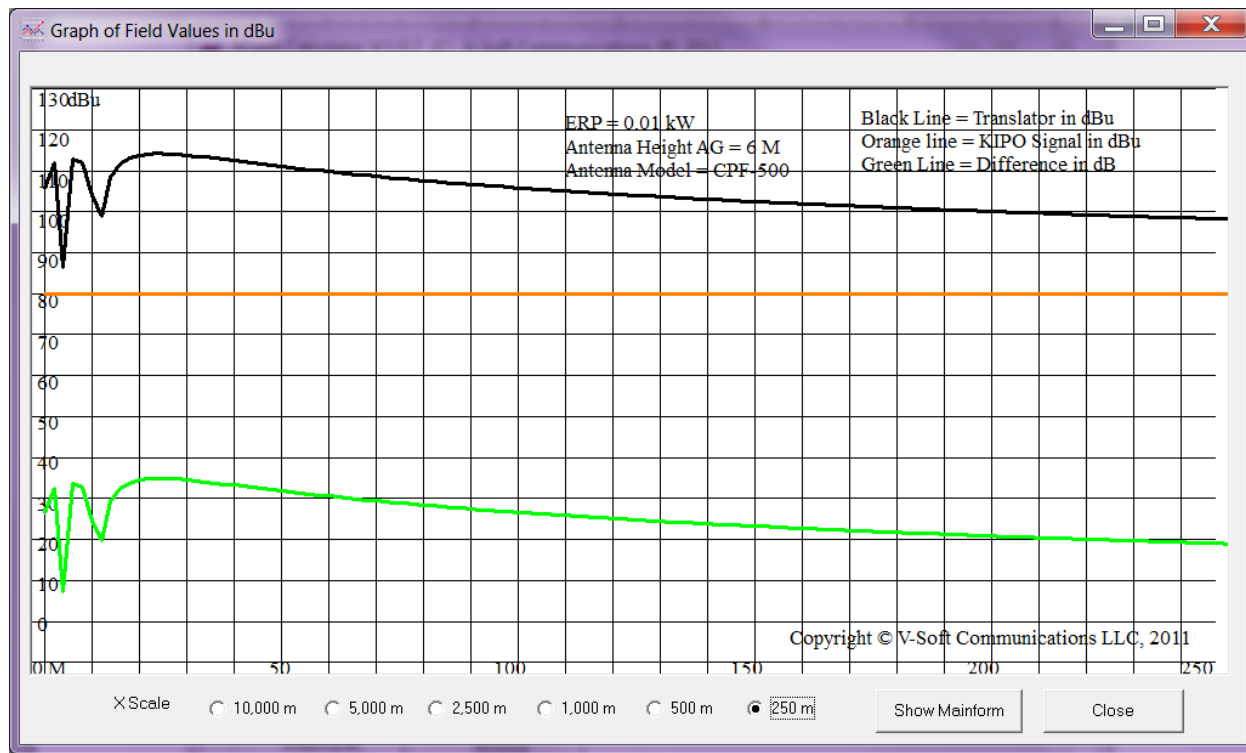
KIPO and K203EL

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KIPO (channel 207C0) Honolulu, HI. Also, the proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel translator K205EL (channel 203D) Haleiwa, HI. According to 74.1204(a)(3), in order to protect second adjacent facilities, the difference in dB between the two facilities must not exceed 40dB.

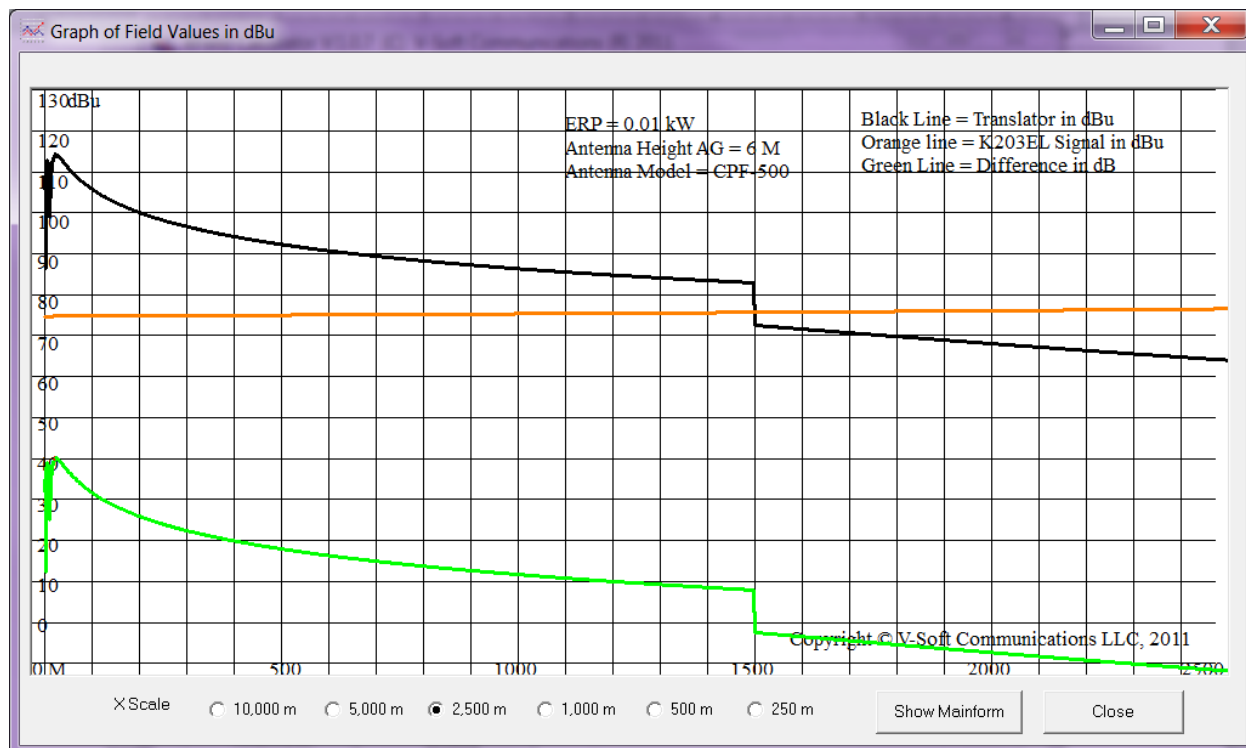
EMF has investigated the proposed K214CY facility using V-Soft Communication's X-Field program. This program calculates the incoming signal of the station to be protected, and then calculates the interfering contour of the proposed facility based on the proposed ERP, antenna height above ground, and the actual characteristics of the antenna being used (e.g. vertical plane, directionality, number of bays). In this case K214CY's proposed facility has an ERP of 10 watts, height AG of 6m, and is using an RFS CPF-500 1 bay antenna.

As can be seen in the graphs below, at no point does the interfering contour of the proposed facility exceed the required 40dB difference (green line on graph) of KIPO or K203EL. Therefore, the proposed facility does not cause interference at any point.

KIPO



K203EL



Educational Media Foundation

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Exhibit 13

Mali, HI

Also, the proposed FM Translator is located within the protected 60 dBu contour of second adjacent translator application of K256AS, channel 203D, Honolulu, Hawaii. The predicted F(50-50) field strength of K256AS at the proposed translator site is 137dBu. Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 177dBu. This interfering contour extends approximately 0.031 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

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