

TECHNICAL STATEMENT
K205FM HONOLULU, HAWAII
CEDAR COVE BROADCASTING, INC.
FCC FORM 349
JANUARY 2015

This Technical Statement is in support of a modification of Construction Permit, BPFT-20121116ACQ, FCC form 349, being filed on behalf of Cedar Cove Broadcasting, Inc. (“CCB”) in regards to its FM translator, K205FM , Maili Hawaii, facility ID 84395.

CCB is proposing to relocate to a existing tower site known as Mauna Kapu located at N. $21^{\circ}-24'-17''$, W. $158^{\circ}-06'-03''$, NAD 27, with an Effective Radiated Power to 10 Watts (0.01 kilowatts) and replace its current antenna with a Nicom BKG77, one bay, circular polarized, non-directional antenna. The antenna will be mounted at the 15 meter level on a 15.2 meter overall tower, with a Center of Radiation at 832 Above Mean Sea Level. It also seeks to change its community of license from Maili to Honolulu, Hawaii and become a “non-fill-in” translator for KHAI Wahiawa, Hawaii, facility ID 164206.

Figure 1 shows a channel interference study conducted from the proposed site for K205FM. It shows that the proposed operation of K205FM on channel 205D, will not cause any prohibited outgoing interference to any licensed or proposed FM services with the exception of KIPO Honolulu, Hawaii on channel 207C0, facility ID 26440 and it's associated Booster station, KIPO-FM1 Makaha, Hawaii, facility ID 180916. It will be shown that no actual interference will be caused to this 2nd adjacent channel station since the proposed worse case 100 dBμ interference contour proposed by K205FM on channel 205D, will not cover any population since the area of predicted interference nearby the proposed tower site is not inhabited. The proposed transmitter building is not inhabited

and there is no indoor plumbing. Therefore, a waiver is respectfully requested of C.F.R. 74.1204 based on no population within the area of predicted interference.

Figure 2 shows the predicted 100 dB μ contour, and that this contour will not cover any population. Therefore, a waiver is respectfully requested of C.F.R. 74.1204, based on no population within the area of predicted interference, in regards to the operation of second adjacent channel KIPO on channel 207C0.

Figure 3 is a map showing the present and proposed 60 dB μ contours for K205FM. It shows that there will be overlap between these two facilities as required.

It was concluded that the new proposed operation of K205FM Honolulu, Hawaii on channel 205D will not cause any harmful interference to any existing stations and/or any existing or proposed LPFM stations, and will be in full compliance with the commission's rules.

FIGURE 1 - DETAILED CHANNEL INTERFERENCE STUDY

K205FM HONOLULU, HI, CHANNEL 205D											
REFERENCE		CH#	205D	- 88.9 MHz, Pwr= 0.01 kW, HAAT= 686.7 M, COR= 832 M						DISPLAY DATES	
21 24 17.0 N.		Average Protected F(50-50)= 14.66 km						DATA 01-04-15			
158 06 03.0 W.		Omni -di rectional						SEARCH 01-04-15			
CH	CALL	TYPE	ANT	AZI	DI ST	LAT	PWR(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
205D	K205FM	CP	C_	171.7	0.99	21 23 45.0	0.075	49.0	14.8	-63.3*	-69.6*
Maui		HI		351.7	BPFT20121116ACQ	158 05 58.0	574	701	Cedar Cove Broadcasting, I		
205D	K205FM	LIC	C_	171.7	0.99	21 23 45.0	0.010	30.1	9.0	-44.4*	-63.9*
Maui		HI		351.7	BLFT20120717ABD	158 05 58.0	574	701	Cedar Cove Broadcasting, I		
207CO	KIPO	LIC	DCX	104.4	30.33	21 20 12.0	38.500	8.1	75.0	6.5	-44.9*
Honolulu		HI		284.5	BLED20100119ABP	157 49 03.0	514	622	Hawaii Public Radio, Inc.		
207D	KIPO-FM1	LIC	DC_	337.9	13.02	21 30 49.0	4.000	0.2	13.7	1.4	-0.9*
Makaha		HI		157.9	BLFTB20120912AAA	158 08 54.0	718	1171	Hawaii Public Radio, Inc.		
203D	K203EL	LIC	C_	103.0	36.63	21 19 49.0	0.250	1.1	31.0	20.0	4.5
Haleiwa, Etc.		HI		283.1	BLFT20111214AHR	157 45 24.0	718	798	Hawaii Public Radio, Inc.		
207D	KIPO-FM2	CP	DC_	103.0	36.63	21 19 49.0	3.000	0.1	8.5	21.0	20.2
Kailua		HI		283.1	BNPFTB20120113AEV	157 45 24.0	781	781	Hawaii Public Radio, Inc.		
205A	KHJC	LIC	_CX	296.0	152.10	21 59 54.0	2.500	106.2	41.8	30.2	52.8
Lihue		HI		115.5	BLED20140409AAK	159 25 35.0	111	390	Calvary Chapel Of Twin Fal		
06ZT	KKAM-LP	AP	D_N	113.0	196.32	20 42 19.0	3.000	0.2	75.0	139.5R	56.8M
Kailua-kona		HI		293.7	BMJPTVL20090825BFF	156 21 54.0	816	896	Kkam, Lic		

Terrain database is USGS 03 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. Call signs with strikeout need not be protected.
 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 restricted contour.

K205FM is being modified by this Modification of CP application.

No actual interference will be caused to 2nd adjacent channel station KIPO Honolulu and KIPO-FM1 Makaha since the proposed 100 dbu contour will not cover any population. See the Technical Statement for more details.

FIGURE 2 - PREDICTED 100 DBU CONTOUR
K205FM HONOLULU, HI, CHANNEL 205D

Coverage Study - USGS 03 SEC
01-04-2015

K205FM CH205 D , 0.01 kW, 686.7M HAAT, 832.0M COR AMSL
Interference Contour = 100 dBu. Population = 0

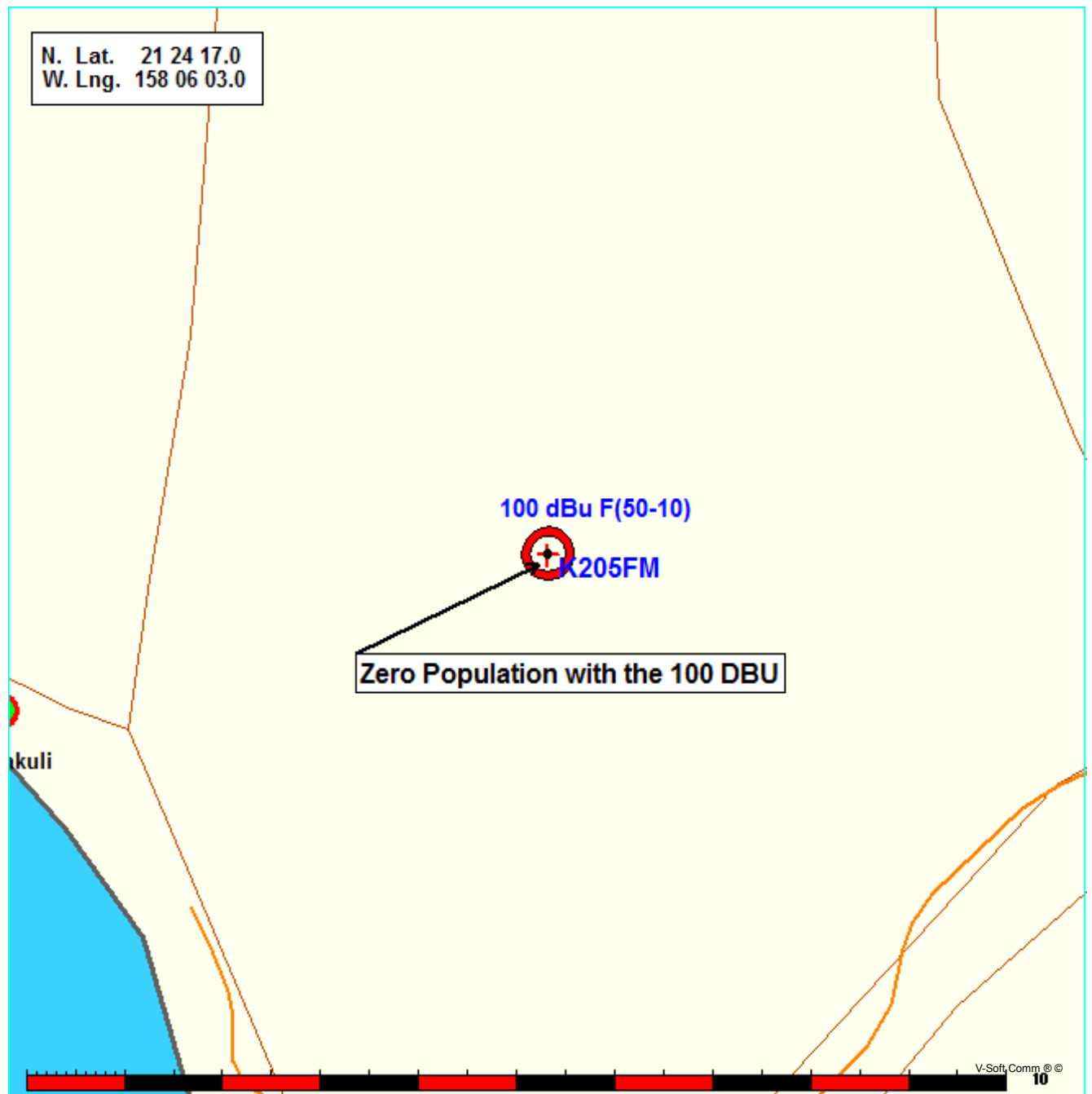


FIGURE 3 - PRESENT AND PROPOSED 60 DBU CONTOUR
K205FM HONOLULU, HI, CHANNEL 205D

Coverage Study - USGS 03 SEC
01-04-2015

