

## Channel Study

REFERENCE		CH# 201A - 88.1 MHz, Pwr= 1.6 kW, HAAT= -33.5 M, COR= 38 M								DISPLAY DATES	
19 43 45.0 N.		Average Protected F(50-50)= 11.4 km								DATA	04-20-22
155 01 22.0 W.		Omni-directional								SEARCH	04-26-22
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)	
201A	KLHE!	CP	CN	232.4	5.10	19 42 04.20	3.000			---Reference---	
Hilo			HI	52.4	0000166865	155 03 41.00	-135	39	Educational Media Foundation		
201D	K201FQ!	LIC	VN	219.7	4.69	19 41 48.00	0.230	39.9	11.6	-46.5*<	-48.8*<
Hilo			HI	39.6	BLFT20130808AFZ	155 03 05.00		85	CSN International		
204D	K204GM!	LIC	CN	0.0	0.00	19 43 45.00	0.250	1.1	7.9	-13.8*<	-9.5*<
Hilo			HI	87.1	BLFT20160608AAC	155 01 22.00		38	Educational Media Foundation		
204C0	KHPH	LIC	HN	269.6	94.02	19 43 15.00	6.500	4.1	43.8	78.6	48.7
Kailua			HI	89.3	BLED20130214AAB	155 55 16.00	932	1729	Hawaii Public Radio, Inc.		

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Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM

Contour distances are on direct line to and from reference station. Reference Zone= - Zone 2, Co to 3rd adjacent.

All separation margins (if shown) include rounding. Call signs with exclamation marks 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.

< = Station meets FCC minimum distance spacing for its class.

< = Contour Overlap



### **Environmental Protection**

The proposed New NCE facility will operate utilizing a 2 bay 0.85 waved spaced EPA Type 2 Double V antenna.

The maximum theoretical RF value is  $14.0\text{uW}/\text{cm}^2$  at a distance of 14 meters from the tower, which is 7.0% of the  $200\text{ uW}/\text{cm}^2$  permitted for public (uncontrolled) exposure, and 1.4% of the  $1000\text{ uW}/\text{cm}^2$  permitted for worker (controlled) exposure.

Therefore, the proposed facility complies with the requirements of OET 65.

EMF will fully cooperate with other future site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.