













La Casa Dominicana de Hazleton Inc. C/O La Casa Dominicana de Pennsylvania
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La Casa Dominicana de Hazleton, Inc.
 Application for New Low Power FM Station

REFERENCE							DISPLAY DATES	
40 58 10.00 N.			CLASS = L1				DATA	12-12-23
75 57 09.20 W.			Current Spacings to 2nd Adj.				SEARCH	12-12-23
----- Channel 233 - 94.5 MHz -----								
Call	Channel		Location		Azi	Dist	FCC	Margin
WQKX	LIC	231B	Sunbury	PA	252.2	65.93	67.0	-1.1
W234BH	LIC-D	234D	West Hazleton	PA	304.0	28.84	28.0	0.8
W234BH	CP -D	234D	Berwick	PA	304.0	28.84	28.0	0.8
WVHO-LP	LIC	233L1	Nanticoke	PA	351.4	26.43	24.0	2.4
WDAC	LIC	233B	Lancaster	PA	191.6	121.63	112.0	9.6
W235AA	LIC-D	235D	Wilkes-Barre	PA	18.0	25.35	14.0	11.4
W233BC	LIC-D	233D	Ashland	PA	237.3	40.24	26.0	14.2
WPST	LIC-D	233B	Trenton	NJ	132.5	127.56	112.0	15.6
WTRW	LIC	232A	Carbondale	PA	32.6	75.88	56.0	19.9
W231EB	LIC-D	231D	Larksville	PA	11.5	31.30	8.0	23.3
W235AD	LIC-D	235D	Pottsville	PA	212.4	38.48	14.0	24.5
W234CY	LIC-D	234D	Pittston	PA	18.5	44.12	15.0	29.1
W235DC	LIC-D	235D	Dickson City	PA	18.6	53.61	21.0	32.6
W234AX	LIC-D	234D	Allentown	PA	132.4	60.97	21.0	40.0
WRBT	LIC-D	235B	Harrisburg	PA	229.5	111.26	67.0	44.3
W233CP	LIC	233D	Milton	PA	272.8	77.31	32.0	45.3

Protected zones report for PROPOSED on channel 233L 12-12-2023
 Lat. 40 58 10.0 Lng. 75 57 09.2, ERP= 0.005 kw, HAAT= 135.4 m

La Casa Dominicana de Hazleton is submitting this application for channel 233L in Hazleton. This application complies with all FCC rules regarding margin separations, except for the second channel WQKX. However, the following narrative demonstrates protection against interference for WQKX: Distance to border = 304.1 km. Facility is okay with respect to AM station towers. Closest AM Facility is WAZL, HAZLETON, PA, L, ND1 at 201.3° at a distance of 3.5 km Facility is okay with respect to FCC monitoring stations. Closest FCC Monitoring Station is 213.6 km= Laurel, MD Facility is okay toward West Virginia Quiet Zone. Distance to center = 419.1 km Facility is okay toward Table Mountain. Distance to Center = 2482.4 km, Azimuth = 277.5 Degrees True.

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Coverage Study - FCC NGDC 30 Sec

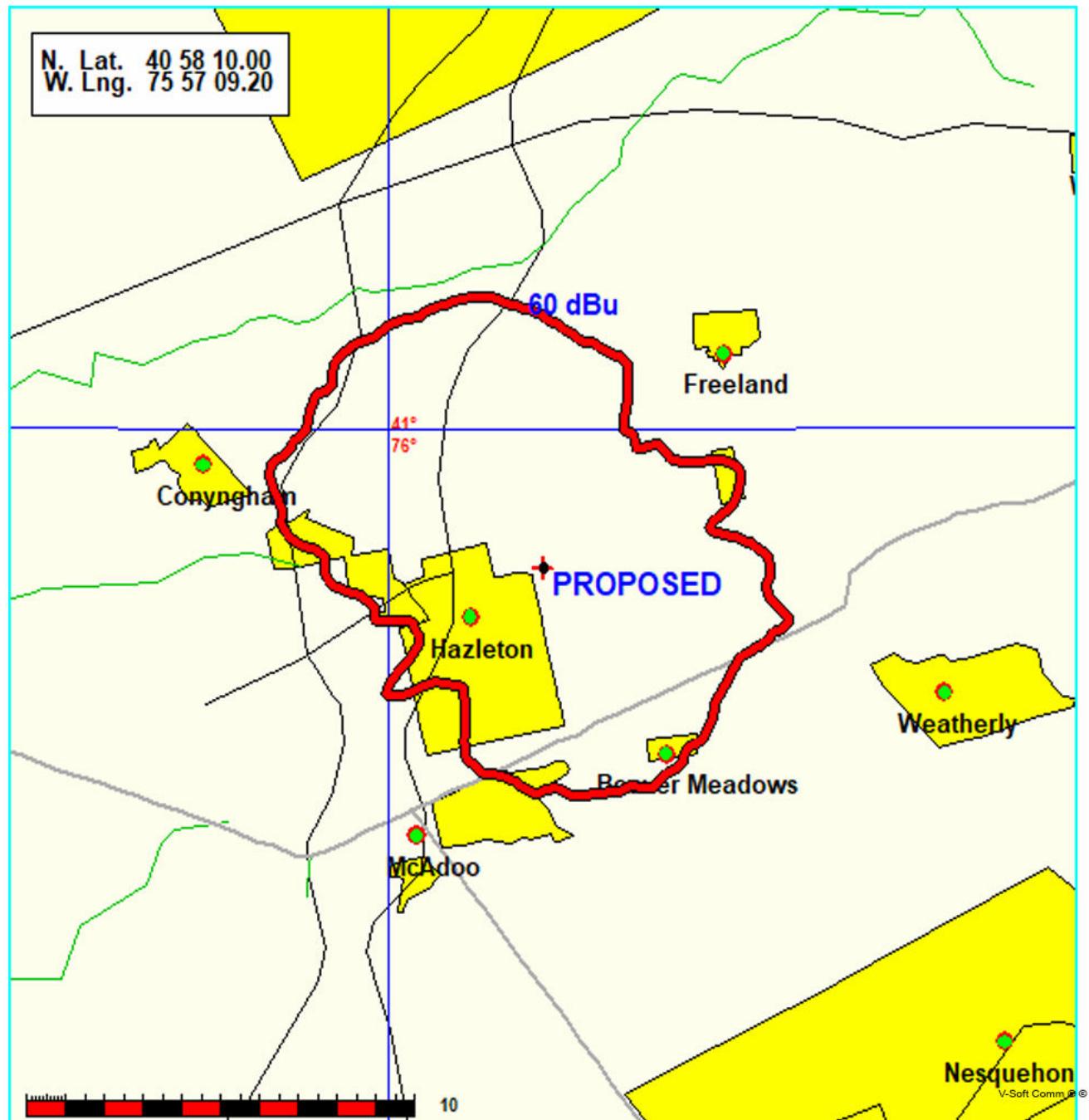
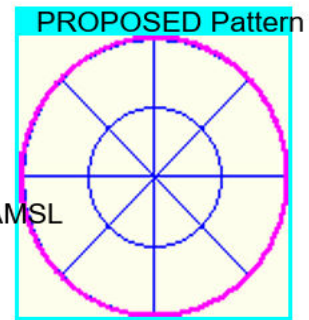
12-13-2023

PROPOSED

CH233 L1, 0.005 kW, 33m AG

135.4m HAAT, 578.0m COR AMSL

Service Contour = 60 dBu.

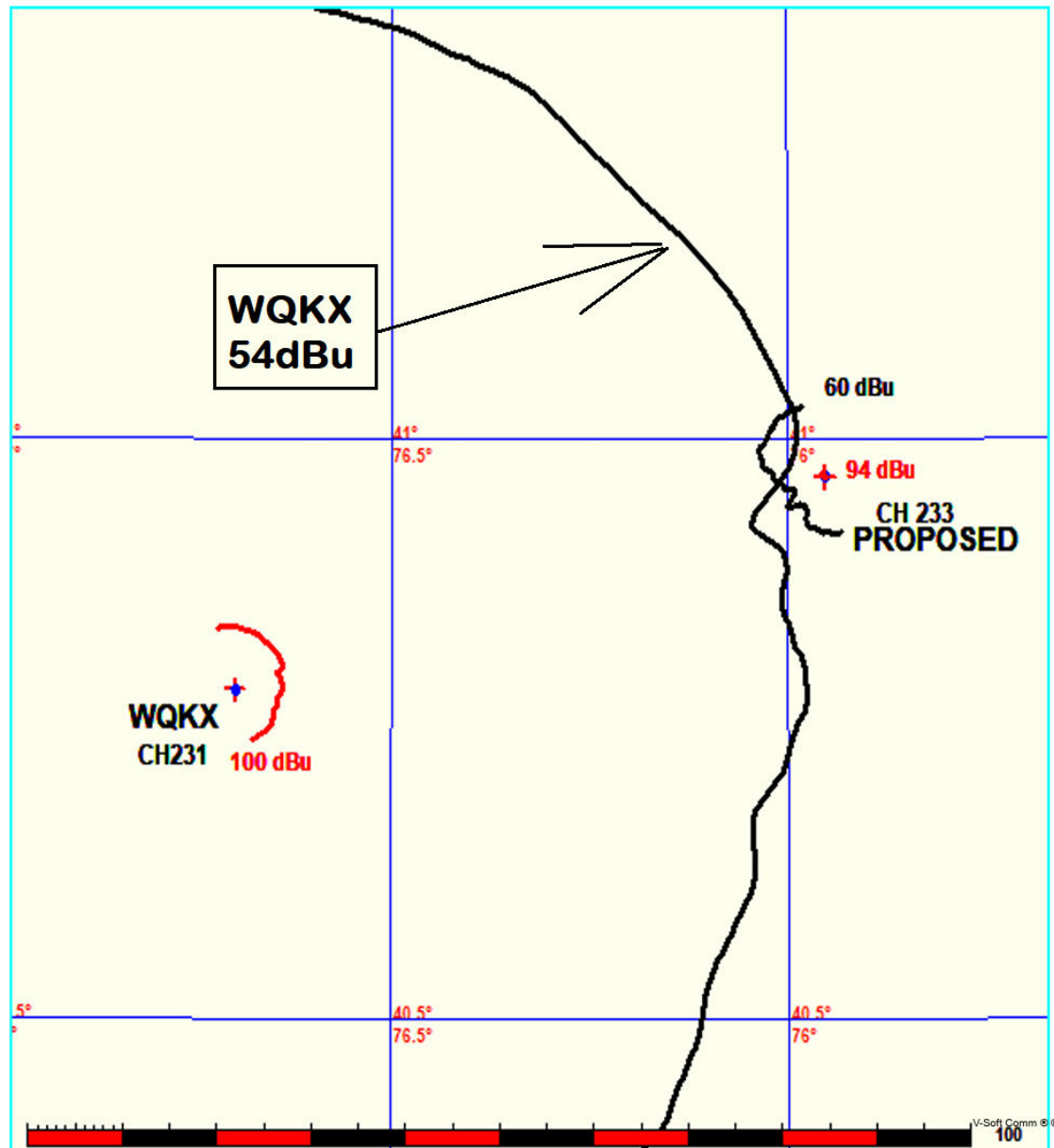


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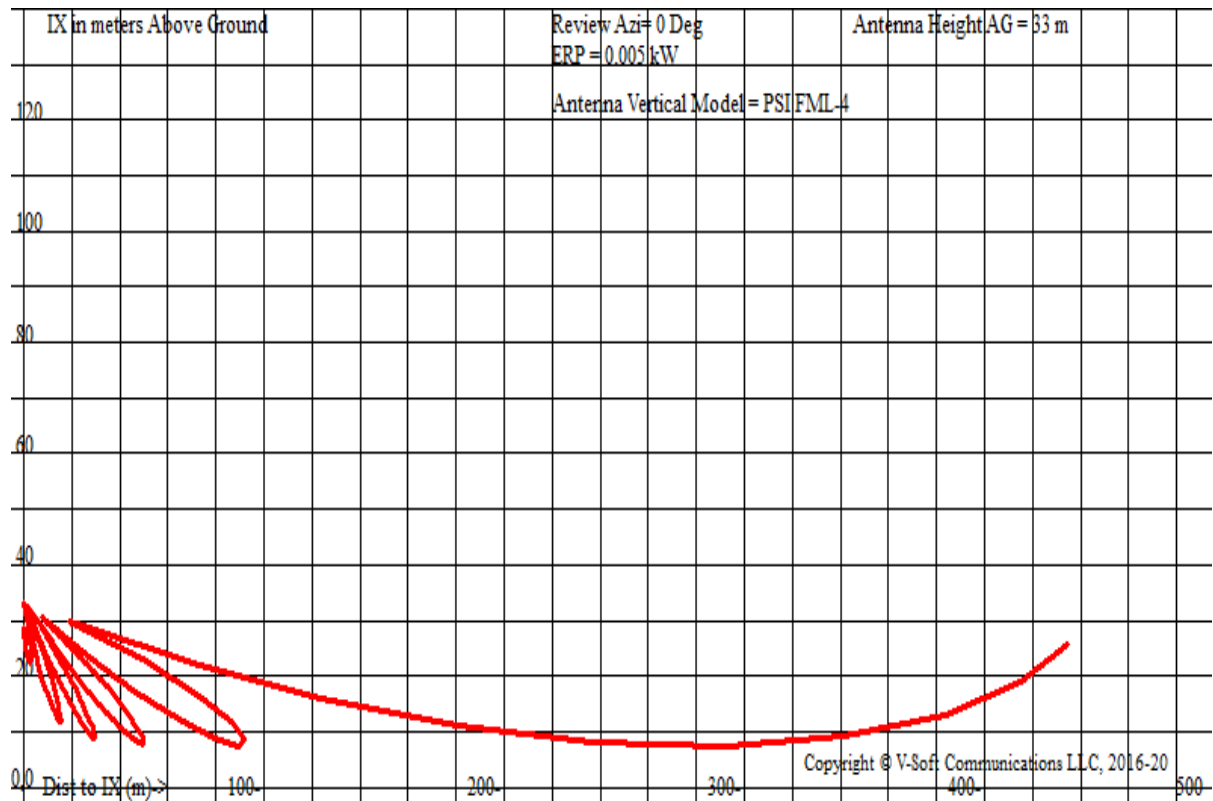
FMCommander Single Allocation Study - 12-13-2023 - FCC NGDC 30 Sec
PROPOSED's Overlaps (In= 0.0 km, Out= 0.0 km)

PROPOSED CH 233 L1 DA
Lat= 40 58 10.00, Lng= 75 57 09.20
0.005 kW 135.4 m HAAT, 578 m COR
Prot.= 60 dBu, Intef.= 94 dBu

WQKX CH 231 B BMLH20050822AAE
Lat= 40 47 10.30, Lng= 76 41 47.90
16.0 kW 268 m HAAT, 509 m COR
Prot.= 54 dBu, Intef.= 100 dBu



The signal strength contour of WQKX at 54 dBu does not overlap with the proposed station's contour at 94 dBu. As a result, no interference is predicted.



PROPOSED , , Showing Protection to WQKX , Channel: 231
 Geographic Coordinates: N. 40 58 10.00 W. 75 57 09.20
 74.1204(d) Study - Using FCC 30 SEC Terrain Database
 Translator or LPFM Maximum Antenna ERP = 0.005 kW, Channel: 233
 Translator or LPFM Antenna Height AG = 33 meters
 PROPOSED Antenna Azimuth Model = Reference Station Antenna

(NAD 83), Vertical Model = PSI FML-4

Protected Station's Contour = 50.83979 dBu
 Translator's or LPFM's full Interference contour 90.83979

Review Azimuth = 0 Degrees True
 Relative Field on the horizontal at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizontal at Review Azimuth = 0.005 kW
 Distance between stations = 65.9 km
 Protected Station= WQKX, 16 kW, 509 M meters COR AMSL

Depression Angle From Horiz. (Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle (m)	Dist to IX Contour From Tower Base (m)	Height IX Above Ground (m)
00.0	1.0	1.0	0.0050	450.2933	450.2933	033.000
05.0	0.665	1.0	0.0022	299.4451	298.3056	006.902
10.0	0.051	1.0	0.0000	022.9650	022.6161	029.012
15.0	0.216	1.0	0.0002	097.2634	093.9492	007.826
20.0	0.065	1.0	0.0000	029.2691	027.5039	022.989
25.0	0.114	1.0	0.0001	051.3334	046.5239	011.306
30.0	0.083	1.0	0.0000	037.3743	032.3671	014.313
35.0	0.042	1.0	0.0000	018.9123	015.4921	022.152
40.0	0.085	1.0	0.0000	038.2749	029.3203	008.397
45.0	0.029	1.0	0.0000	013.0585	009.2338	023.766
50.0	0.039	1.0	0.0000	017.5614	011.2883	019.547
55.0	0.059	1.0	0.0000	026.5673	015.2384	011.237
60.0	0.038	1.0	0.0000	017.1111	008.5556	018.181
65.0	0.005	1.0	0.0000	002.2515	000.9515	030.959
70.0	0.017	1.0	0.0000	007.6550	002.6182	025.807
75.0	0.025	1.0	0.0000	011.2573	002.9136	022.126
80.0	0.024	1.0	0.0000	010.8070	001.8766	022.357
85.0	0.018	1.0	0.0000	008.1053	000.7064	024.926
90.0	0.011	1.0	0.0000	004.9532	000.0000	028.047

WQKX is on the second adjacent channel 231B, located at a distance of 65.9 km. The FCC requires a separation of 67 km, and while this falls short by 1.2 km this slight margin separation may be waived.

WQKX operates with 16 kW at 509m above mean sea level (AMSL). The proposed PSI FML antenna, mounted at 33m above the ground, establishes the protected station's contour at 50.8 dBu (the 'desired' signal). The second/adjacent-channel protection requires an undesired-to-desired ('U/D') dB signal strength ratio of 40. Therefore, the predicted interference to WQKX from the proposed LPFM facility is a signal of greater than or equal to 90.8 dBu.

Tabulations indicate that the vertical relative field values do not reach the ground level. Furthermore, the elevation graph and tabulation show that the interference signal's worst case for WQKX is at 6.9 meters above the ground (equivalent to the height of a two-story house ceiling). This lowest point, marked at a depression angle of 05° degrees, is in the north direction at 298 meters from the tower. A Google Earth map confirms the absence of structures in this direction, with an inhabited yard instead. In other directions, particularly southwest, there are some single and no more than two-storey buildings.

Considering these factors, no actual interference to any population is predicted to exist for WQKX. Pursuant to Section 74.1204(d) of the FCC Rules, WQKX is adequately protected by the proposed facility. It's important to note that a rule waiver of Section 73.807 for this second adjacent channel protection, as established for Living Way Ministries, is respectfully requested if deemed necessary for the protection of any station.

