

Channel Study

REFERENCE		CH# 239D - 95.7 MHz, Pwr= 0.25 kW DA, HAAT= 148.7 M, COR= 328 M								DISPLAY DATES	
43 01 48.0 N.		Average Protected F(50-50)= 15.8 km								DATA 02-24-15	
78 55 15.0 W.		Standard Directional								SEARCH 03-04-15	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
239D North Tonawanda	W239BA!	LIC	C NY	0.0 0.0	0.00 BLFT20080811AAH	43 01 48.0 78 55 15.0	0.055 56	20.7 234	6.2 Family Life Ministries, In	-36.1	-57.0
241B Buffalo	WMSX	LIC	CN NY	166.5 346.5	16.44 BLH19950814KB	42 53 10.0 78 52 25.0	47.000 154	6.0 338	65.3 Townsquare Media Of Buffal	2.3	-49.5*<
239B Olean	WPIG	LIC	CN NY	160.5 340.8	117.14 BLH4110	42 02 08.0 78 26 47.0	43.000 226	148.9 769	75.7 Community Broadcasters, Ll	-40.0*<	2.5
237C1 Hamilton	CING-FM	OP	HN ON	286.2 105.6	72.18 3875	43 12 27.0 79 46 27.0	100.000 305	10.4 455	87.6 Cing-fm	49.0	-21.1*<
237D Sanborn	W237EB	CP	DV NY	10.6 190.6	11.96 BNPFT20130826AFE	43 08 09.0 78 53 37.0	0.079 75	0.0 233	0.6 Calvary Chapel Of The Fing	-3.5*<	10.2
293B Buffalo	WYRK	LIC	CN NY	166.5 346.5	16.44 BLH19950814KA	42 53 10.0 78 52 25.0	50.000 142	39.5 326	26.0 Townsquare Media Of Buffal	14.5R	1.9M
239D Albion	W239BX	LIC	C NY	66.7 247.2	64.34 BLFT20131121ABP	43 15 21.0 78 11 33.0	0.038 17	14.0 165	4.4 Family Life Ministries, In	34.2	7.6
240B Ajax	CJKX-FM	OP	DHN ON	355.5 175.5	106.28 5863	43 59 02.0 79 01 28.0	50.000 96	76.5 325	64.5 Cjkk-fm	14.3	8.9
240A Toronto	CJKX-FM-2	OP	DHY ON	331.7 151.4	78.24 8508	43 38 56.0 79 22 54.0	0.220 312	29.6 420	27.8 Cjkk-fm-2	32.7	16.8
238D Albion	W239BX	APP	DC NY	69.6 250.0	61.13 BPFT20140505ABF	43 13 09.8 78 12 55.9	0.250	21.5 315	14.2 Family Life Ministries, In	23.4	22.6
242C1 Toronto	CFMZ-FM	OP	DHN ON	331.7 151.4	78.24 4490	43 38 56.0 79 22 54.0	60.000 284	3.0 391	51.4 Cfmz-fm	59.4	25.0
239D Rochester	W239BF	LIC	DC NY	81.6 262.6	118.62 BLFT20140606AAH	43 10 37.0 77 28 39.0	0.250 138	48.6 264	14.5 Entercom Rochester License	53.7	51.5
239C Barrie	CFJB-FM	OP	DHN ON	337.2 156.7	159.60 4548	44 21 05.0 79 41 54.0	100.000 304	89.7 558	36.9 Cfjb-fm	54.1	54.3<
236B Honeoye Falls	WAIO	LIC	C NY	89.3 270.3	122.18 BLH20010530AAW	43 02 01.0 77 25 18.0	50.000 146	5.7 329	63.0 Citicasters Licenses, Inc.	100.2	57.3

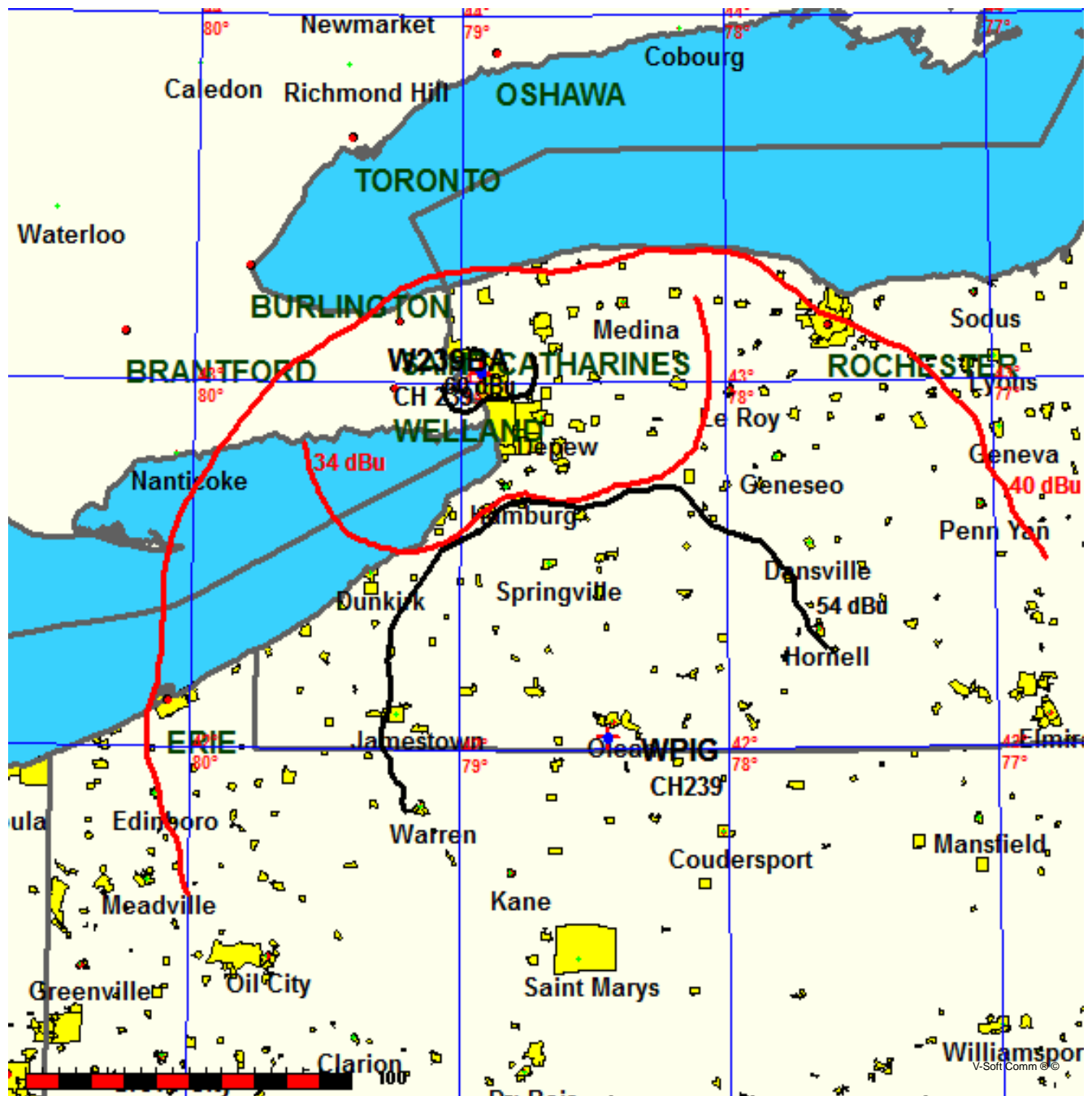
Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference Zone= East Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding. Call signs with exclamation 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
 Reference station has protected zone issue: Canada

Family Life Ministries, Inc.

FMCommander Single Allocation Study - 03-05-2015 - NGDC 30 SEC
W239BA's Overlaps (In= -39.96 km, Out= 2.47 km)

W239BA CH 239 D DA
Lat= 43 01 48.0, Lng= 78 55 15.0
0.25 kW 148.7 M HAAT, 328 M COR
Prot.= 60 dBu, Intef.= 34 dBu

WPIG CH 239 B BLH4110
Lat= 42 02 08.0, Lng= 78 26 47.0
43.0 kW 226 M HAAT, 769 M COR
Prot.= 54 dBu, Intef.= 40 dBu

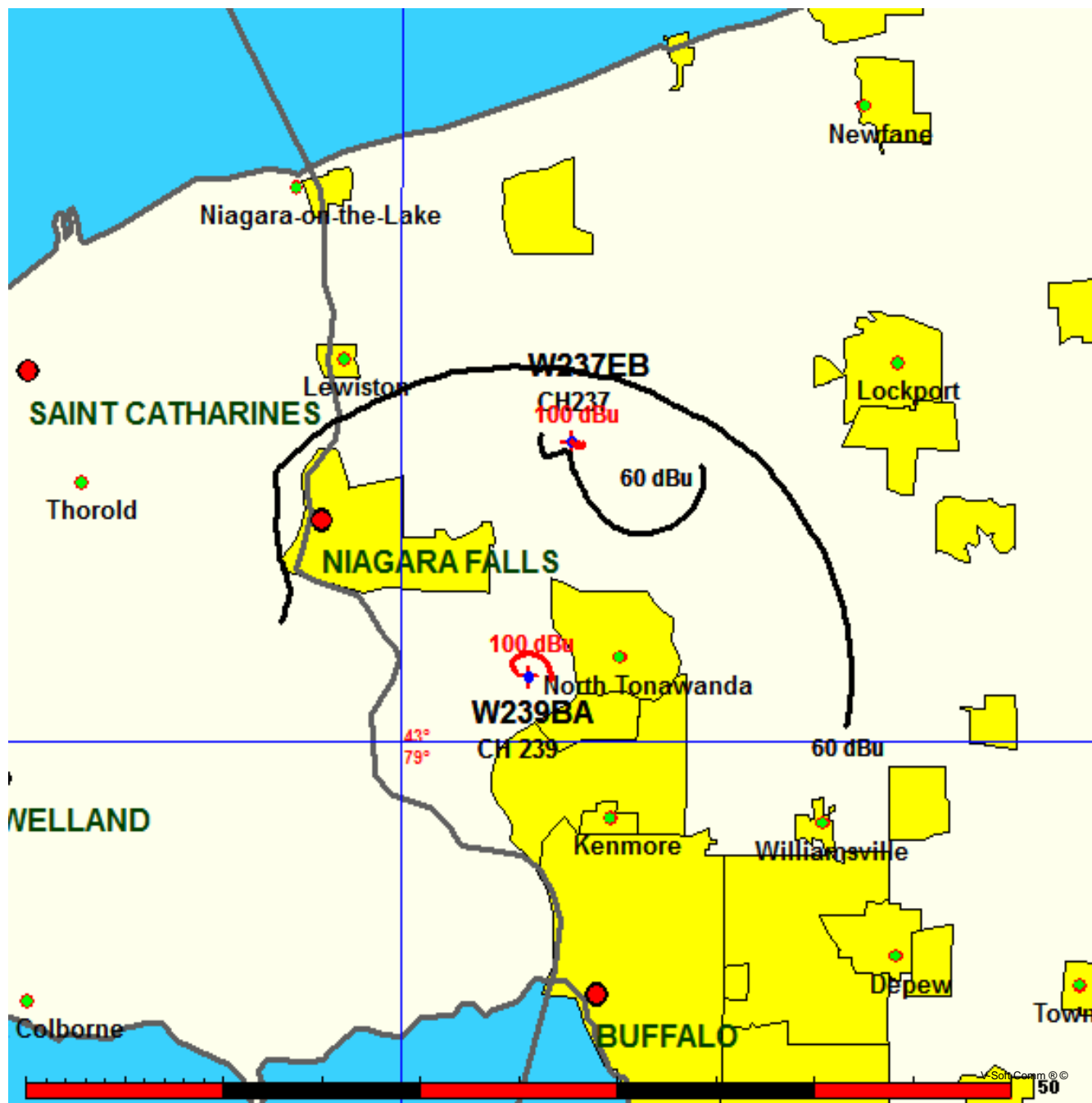


Family Life Ministries, Inc.

FMCommander Single Allocation Study - 03-05-2015 - NGDC 30 SEC
W239BA's Overlaps (In= -3.47 km, Out= 10.23 km)

W239BA CH 239 D DA
Lat= 43 01 48.0, Lng= 78 55 15.0
0.25 kW 148.7 M HAAT, 328 M COR
Prot.= 60 dBu, Intef.= 100 dBu

W237EB CH 237 D DA BNPFT20130826AFE
Lat= 43 08 09.0, Lng= 78 53 37.0
0.079 kW 75 M HAAT, 233 M COR
Prot.= 60 dBu, Intef.= 100 dBu



Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 54dBu contour of second adjacent channel station WMSX, channel 241B, Buffalo, NY. 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 W239BA.P:	250 watts
The proposed COR for W239BA.P:	152 meters
WMSX F(50/50) contour at proposed site:	82.6dBu
The F(50/10) contour of proposed W239BA.P:	122.6dBu

The predicted distance to the 122.6dbu interfering contour is 82.2 meters. Taking into account the vertical elevation pattern of the PSI two bay antenna and the height above ground of 152M, it has been determined that the interfering contour of 122.6dbu does not reach the ground. As seen in Exhibit 13-A1, the lowest elevation for this interfering contour is 130.5M above ground at a distance of 50.97m from the antenna.

As can be seen in Exhibit 13–A2 there are no surrounding structures which are tall enough to enter the 122.6dbu contour within the 82.2 meter radius from the base of the tower.

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

EXHIBIT 13 - A1
74.1204(d) Showing
W239BA
North Tonawanda, NY

ERP (kw): 0.25
Height of Antenna above Ground (m): 152
Translator's IX Contour: 122.6
Antenna Type: PSI FML 2BAY 0.625 wave spacing

<u>Depression Angle from Horizon</u>	<u>Antenna Relative Field</u>	<u>ERP (kw) from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above Ground (m)</u>
0	1.000	0.2500	82.2186	152.000
5	0.980	0.2401	80.5742	144.977
10	0.930	0.2162	76.4633	138.722
15	0.850	0.1806	69.8858	133.912
20	0.740	0.1369	60.8418	131.191
25	0.620	0.0961	50.9755	130.457
30	0.480	0.0576	39.4649	132.268
35	0.350	0.0306	28.7765	135.494
40	0.240	0.0144	19.7325	139.316
45	0.125	0.0039	10.2773	144.733
50	0.050	0.0006	4.1109	148.851
55	0.030	0.0002	2.4666	149.980
60	0.070	0.0012	5.7553	147.016
65	0.080	0.0016	6.5775	146.039
70	0.090	0.0020	7.3997	145.047
75	0.080	0.0016	6.5775	145.647
80	0.060	0.0009	4.9331	147.142
85	0.030	0.0002	2.4666	149.543
90	0.001	0.0000	0.0822	151.918